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OM nucleic - nucleic search, using sw model

Run on: January 31, 2004, 13:36:50 ; Search time 95 Seconds  
(without alignments)  
6328.040 Million cell updates/sec

Title: US-10-084-406-1

Perfect score: 1362  
Sequence: 1 atgaagatctcaaatgtta.....atctacacacacatcatcga 1362

Scoring table: IDENTITY\_NUC  
Gapop 10.0, Gapext 1.0

Searched: 569978 segs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database:

Issued Patents NA:  
1: /cgn2\_6/prodata/1/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/prodata/1/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/prodata/1/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/prodata/1/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/prodata/1/ina/6C\_COMB.seq.\*  
6: /cgn2\_6/prodata/1/ina/backfile1.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	191.8	14.1	2128	3	US-09-233-506-1
2	185.2	13.6	1807	1	US-08-118-906-13
3	185.2	13.6	1807	1	US-08-486-196-13
4	185.2	13.6	1807	2	US-08-488-135-13
5	185.2	13.6	1807	2	US-08-474-065-13
6	172.2	12.6	2105	1	US-07-955-041-3
7	172.2	12.6	2105	1	US-08-227-455-3
8	172.2	12.6	2105	1	US-08-472-482-3
9	172.2	12.6	2105	1	US-08-487-069-3
10	160.8	11.8	2102	3	US-09-063-237-3
11	160.8	11.8	378	1	US-08-118-906-1
12	160.8	11.8	378	1	US-08-486-196-1
13	160.8	11.8	378	1	US-08-488-135-1
14	160.8	11.8	378	2	US-08-474-065-1
15	160.8	11.8	378	1	US-08-118-906-3
16	160.8	11.8	378	1	US-08-486-196-3
17	160.8	11.8	378	1	US-08-488-135-3
18	160.8	11.8	378	2	US-08-474-065-3
19	160.8	11.8	378	4	US-09-149-476-07
20	160.8	11.8	378	3	US-09-233-506-1
21	160.8	11.8	378	3	US-09-149-476-181
22	160.8	11.8	378	4	US-09-149-476-181
23	160.8	11.8	378	4	US-08-961-527-37
24	160.8	11.8	378	1	US-08-118-906-5
25	160.8	11.8	378	1	US-08-486-196-5
26	160.8	11.8	378	1	US-08-488-135-5
27	160.8	11.8	378	2	US-08-474-065-5

C	28	37.2	2.7	7218	1	US-08-232-463-14	Sequence 14, App1
	29	35.2	2.6	99	1	US-08-118-906-7	Sequence 7, App1
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	33	35	2.6	1437	4	US-09-137-223A-4	Sequence 4, App1
	34	35	2.6	1664976	4	US-08-916-421B-1	Sequence 1, App1
	35	34.4	2.5	8494	4	US-08-961-527-163	Sequence 163, App
	36	34.2	2.5	3882	3	US-08-675-566-8	Sequence 8, App1
	37	34.2	2.5	3884	3	US-08-675-566-11	Sequence 11, App1
	38	34.2	2.5	3888	3	US-08-675-566-12	Sequence 12, App1
	39	34.2	2.5	3955	3	US-08-675-566-10	Sequence 10, App1
	40	34.2	2.5	4009	3	US-08-675-566-9	Sequence 9, App1
	41	34.2	2.5	4503	3	US-08-675-566-7	Sequence 7, App1
	42	34.2	2.5	7379	3	US-08-675-566-13	Sequence 13, App1
	43	34	2.5	1928	3	US-08-675-816-4	Sequence 4, App1
	44	33.8	2.5	5241	4	US-08-809-513A-1	Sequence 1, App1
	45	33.8	2.5	5241	4	US-08-809-513A-2	Sequence 2, App1

#### ALIGNMENTS

RESULT 1  
US-09-233-506-1  
Sequence 1, Application US/09233506  
Patent No. 6136580  
GENERAL INFORMATION:  
APPLICANT: Fukuoka, Minoru  
TITLE OF INVENTION: A Beta-1-6-N-Acetylglucosaminyltransferase That Forms  
FILE REFERENCE: P-LJ 3415  
CURRENT FILING DATE: 1999-01-19  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: Patentln Ver. 2.0  
SEQ ID NO 1  
LENGTH: 2128  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (354)..(1670)  
US-09-233-506-1

Query Match	14.1%	Score 191.8;	DB 3;	Length 2128;
Best Local Similarity	52.5%	Pred. No. 1.1e-42;		
Matches 517;	Conservative 0;	Mismatches 432;	Indels 36;	Gaps 3;
QY	317	TGACGAGTGTGACATTTATCAGACTCTAAGAGTTATGCTCAAAAGCTTGCTCA	376	
DB	670	TCACGAGTGTGACATTTATCAGACTCTAAGAGTTATGCTCAAAAGCTTGCTCA	729	
QY	377	AGAGAGAGAGAGAGCTTCCCAATAGCTTATTTGTTGTTCCCAAGATCAATTATG	436	
DB	730	AGAGAGAGAGAGAGCTTCCCAATAGCTTATTTGTTGTTCCCAAGATCAATTATG	789	
QY	437	TTGAAGGCTTATCCAGTATATATACAGCAGCAATATTTAGTCAATATGATC	496	
DB	790	TTGAAGGCTTATCCAGTATATATACAGCAGCAATATTTAGTCAATATGATC	849	
QY	497	GTAAGGAGCTGATCACTTCAAAAGTTGCGATGAAACATTTAGTGAAGTCTTCCAA	556	
DB	850	AGAGAGAGAGAGAGCTTCCCAATAGCTTATTTGTTGTTCCCAAGATCAATTATG	909	
QY	557	TTTATGCTTCCCAATTTAGAGCTGTGAAATATGCGCATTTCCAGCTCCAGCTG	616	
DB	910	TTTATGCTTCCCAATTTAGAGCTGTGAAATATGCGCATTTCCAGCTCCAGCTG	969	
QY	617	ATTAAATGCTTGTGCGAGCTTCTGAAGCTTCAATCAGTGAATATGTTATCACT	676	
DB	970	ACCTCACTGATGAGAGAGCTTGTCCAGAGCTCCGCGGAAATATCTCTGAATA	1029	

QY 677 TGTGTGGGAGAGATTTTCCCTGAGTCAATTTTGAATTTGTGTGAGAGTTGAAAGAA 736  
DB 1030 CATGTGGGAGCGAGCTTTCTTAATTAAGAGATGCGAGATGTTCCAGGCTCTCAAGATGT 1089  
QY 737 TCATGTGAGCAATATATGTGTGAGACGCTGAAACCCCAAGATTAATTTGAAAGATTC 796  
DB 1090 TGAATGGAGAGATGATGATGAGTCAAGAGTACCTCTTAAGCAAGAAAGAACCCCTGGA 1149  
QY 797 CTTCACATGATGATGATGATGAGGAGTCTTAAGATATGTAAGTACCAATTAAGAGAA 856  
DB 1150 AATATCACTTGGGTAGTGAAGAGACATTTAC-----CTAACCA 1191  
QY 857 ACATCTCAAG 916  
DB 1192 AGAAG 1251  
QY 917 TTTTAAGTCAAGATTTTGAATTAATTAATTTTCAACATCCATGTTCAAGAGCTTTTGG 976  
DB 1252 TGGCTTCCGAGATTTGTCACAGATTTTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1311  
QY 977 CTGTGTCTAAG 1036  
DB 1312 AATGGGTAAAG 1371  
QY 1037 CAGGAATACCTGGGAGAGATTTCCAGATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1093  
DB 1372 GGTGATGAG 1431  
QY 1094 AGAGTGGCTTGTCAAGTGAATTTACTATGAAGAGCTTTTCTATCCAGT----- 1143  
DB 1432 TTGGCAGAGCTGTGTCAAGTGAATTTACTATGAAGAGAGAGAGAGAGAGAGAGAGAGAG 1491  
QY 1144 -----TGATGTGATCTACCTTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1198  
DB 1492 CTCTGCTGTGTGAATTCACAG 1551  
QY 1199 GGTCTATCAAG 1258  
DB 1552 GGATGCTTCAAG 1611  
QY 1259 TGAATTAATGCTTGGCAG 1283  
DB 1612 CTCTCAGTGTGAAG 1636

RESULT 2  
US-08-118-906-13  
Sequence 13, Application US/08118906  
Patent No. 5484590  
GENERAL INFORMATION:  
APPLICANT: Fukuda, Minoru  
APPLICANT: Bierhuizen, Marti F.A.  
TITLE OF INVENTION: Expression of the Developmental I  
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a  
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESSES:  
ADDRESSES: Campbell and Flores  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/118,906  
FILING DATE: 09-SEP-1993  
CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 9526  
TELEPHONE: (619) 535-9001  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1807 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 255..1454  
US-08-118-906-13

Query Match 13.6%; Score 185.2; DB 1; Length 1807;  
Best Local Similarity 52.1%; Pred No. 6.4e-41;  
Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;

QY 327 TTGTGACATTTATCAGACTGTAAGAGTTATGCTCAAAAGCTTGTCTCAAGAGAGAGAA 386  
DB 467 TTGCAAGAAATTAATTGACCCAGAGCCACTACATCAGAGCCCTTTATCTTAAGAGAGAGAG 526  
QY 387 AAGCTTCCCAATAGCCATTTCTTTGTTGTCCAAAGATGCAATTATGTTGAAGAGCT 446  
DB 527 TGACTTTCCCTGGCATATATATATGATGATGATGATGATGATGATGATGATGATGATGAT 586  
QY 447 TATCCATGCTATATATACAG 506  
DB 587 CTTCAGGAGATTAATGATGAG 646  
QY 507 TGAATACCTTCAAGTGGCATGAAATTTAGTATAGTATAGTATAGTATAGTATAGTATAGTAT 566  
DB 647 AACTGAATTTAAATGAG 706  
QY 567 TTCCAAATTAAG 626  
DB 707 TTCCAAATTAAG 766  
QY 627 CTGTGAGAGCTTGTGAAGTCTTCAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 686  
DB 767 CATCAGAGATCTTGTGCTGAG 826  
QY 687 AGATTTTCCCTGAG 746  
DB 827 AGACTTCCCTGAG 886  
QY 747 AATATGTTGAG 806  
DB 887 AATATGAG 946  
QY 807 TGAATTAAG 866  
DB 947 CCAAG 1000  
QY 867 GGAG 926  
DB 1001 ACCGCTTCCCTGAG 1060  
QY 927 AGCATTTGTAATTAATTAATTTTCAACATCTCATGATGATGATGATGATGATGATGATGAT 986  
DB 1061 AAGATTTGCAACTTTGTTGAG 1120  
QY 987 AG 1046  
DB 1121 GGACACTTCAAGTCTGATGAG 1180  
QY 1047 TGGGAGAGATTTCCAGATGAG 1106

Db 1181 TGGCTCTATGCGCAATGATGCTGGAAGT-----GAAAGCTGAGAGCTAT 1225  
Qy 1107 CAAGTGGAAATTAATGAGAGCTTTTCTATCCAGTTGATCTGAGATCTCACTTGAAG 1166  
Db 1226 AAAGTGGAGTACATGAGAGAGACAGACGAGAGC---TGCCAGCGCCACTTGTACTGG 1282  
Qy 1167 CGTGTGATTTATGAGAGCTGAGATTAAGTGGCTTATCAAGATGAGACATTGGTTGC 1226  
Db 1283 TATTGTATCTATGAGAAAGAGAGCTTAAGTGGCTTATTAATTCACCAAGCTGTTGC 1342  
Qy 1227 TAATTAATTTGATTTAAGGAGAGAGCTTCTTATTAAGCTTGGAGAAAAGCTTGA 1286  
Db 1343 TAACAGATTGAGCTTAATACCTACCCCTTACTGTGGAATGCTGAGAACTGAGGATCG 1402  
Qy 1287 AGAA 1290  
Db 1403 CGAA 1406

RESULT 3  
US-08-486-196-13  
; Sequence 13, Application US/08486196  
; Patent No. 5731420  
; GENERAL INFORMATION:  
; APPLICANT: Fukuda, Minoru  
; APPLICANT: Bierhuizen, Marti F.A.  
; TITLE OF INVENTION: Expression of the Developmental I  
; TITLE OF INVENTION: Antigen By a Cloned Human CDNA Encoding a Member of a  
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Campbell and Flores  
; STREET: 4370 La Jolla Village Drive, Suite 700  
; CITY: San Diego  
; STATE: California  
; COUNTRY: USA  
; ZIP: 92122  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/486,196  
; FILING DATE:  
; CLASSIFICATION: 424  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: US 08/118,906  
; FILING DATE: 09-SEP-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Campbell, Cathryn A.  
; REGISTRATION NUMBER: 31,815  
; TELEPHONE: (619) 535-9001  
; TELEFAX: (619) 535-8949  
; INFORMATION FOR SEQ ID NO: 13:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1807 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 255..1454  
; US-08-486-196-13

Query Match 13.6%; Score 185.2; DB 1; Length 1807;  
Best Local Similarity 52.1%; Pred. No. 6.4e-41;  
Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;  
Qy 327 TTGTGACATTTATCAGACTTAAGAGGTATGCTCAAAAGCTTGTCTCAAGAGAGAGAA 386

Db 467 TTGCAAGAGATCTTGACCCAGAGCCATACATCAAGCCCTTTATCTAAGAGAAAGC 526  
Qy 387 AAGCTTCCCAATAGACCTATCTTGGTGTGTCACAAAGATGCAATATGATGGAAGCT 446  
Db 527 TGACCTTCCCTGGCATATATATATGATCATCATATCACTTGAACCTTTGCAAGGT 586  
Qy 447 TATCCATGCTATATACACACACAAATTTTACTGATCATATATGATGTAAGGACC 506  
Db 587 CTTCAGGGCTATTTACATGCCCAAAATATCTACTGTGTCATGTGATGAAAAAGCAAC 646  
Qy 507 TGATACCTTCAAGTTGCCATGACAAATTTACTAGAGCTTCCCAATTTTCAATTC 566  
Db 647 AACTGAATTTAAAGATGCGGTAGAGCACTATTAAGCTGCTCCCAAGCCTTTCTGGC 706  
Qy 567 TTCCAAATTTAGAGGCTGTGAAATATGCCCAATTTCCAGACTCCAGGCTGATTAATTC 626  
Db 707 TTCCAAATTTAGAAACCGCTGTCTATGAGAGGATCTCCAGGCTCAGGCTGAACTG 766  
Qy 627 CTGTGCGACCTTTGGAAGCTTCAATCCAGTGGAAATATGTTATCACTGTGGGGA 686  
Db 767 CATCAGAGATCTTCTGCTGAGGCTTCATGAGAAATGCTTATCAACCTGTGGGGA 826  
Qy 687 AGATTTTCCCTGAGTCAAAATTTTGAATTTGCTGAGATGAAATACTCATGAGAC 746  
Db 827 AGACTTCCCTGAGAAACCAACAGAAATATGTCATGTAATGAAAGATTTAAAGGTA 886  
Qy 747 AAATATGTTGAGACCGGTGAACCCCAACAGTAATTTGAAAGATTTACTTACATCA 806  
Db 887 AAATATCAACCCGAGGGGTGTGCCCCAGCTCATGCAATTTGACGAGCAATTAATGTCA 946  
Qy 807 TGAATTTAGACGGGCTGCTTATGATATGAGAGTACCAATAGAGACAACATCTCA 866  
Db 947 CCAGAGCACTTGGA-----AAGAGCTTCCATATGATTAAGAAACAAGCGTTGA 1000  
Qy 867 GGAAGCAACCCCGCATTAACATTCAGATATTTGTGGCACTGCTTATTTGTTAACTCA 926  
Db 1001 ACCGCTCCCGCCCATATCTCAAAATTTACTTGGCTGCTGCTATGTCCTTACAG 1060  
Qy 927 AGCATTTTGAATATATATTTTCAACAACCTCATGTTCAAGCTTTTGGCTGCTCA 986  
Db 1061 AGAGTTTCCCACTTTGTTGTCATGACCAAGGCGTGTGATTTCTCCAGTGTCCA 1120  
Qy 987 AGACATACCTCTCTGATGAGACATTTGGGCTACCTTGAATGGGTTCCAGAAATAC 1046  
Db 1121 GGAACATTTAGCTGATGAGCATTTGGGTCACATCAATAGGATTTCCAGGTCTCC 1180  
Qy 1047 TGGGAGATTTCCAGATCAAGCCAGATGTGTGATCTGCAAGTAAGATGCGCTTGT 1106  
Db 1181 TGGCTCTATGCCAAATGCAATCTGGAAGT-----GAAAGCTGAGAGCTAT 1225  
Qy 1107 CAAGTGGAAATTAATGAGAGCTTTTCTATCCAGTTGATCTGAGATCTCACTTGAAG 1166  
Db 1226 AAAGTGGAGTACATGAGAGAGACAGACGAGAGC---TGCCAGCGCCACTTGTACTGG 1282  
Qy 1167 CGTGTGATTTATGAGAGCTGCAAAATTAAGTGGCTTATCAAGATGAGACATTGGTTGC 1226  
Db 1283 TATTGTATCTATGAGAAAGAGAGCTTAAGTGGCTTATTAATTCACCAAGCTGTTGC 1342  
Qy 1227 TAATTAATTTGATTTAAGGAGAGAGCTTCTTATTAAGCTTGGAGAAAAGCTTGA 1286  
Db 1343 TAACAGATTGAGCTTAATACCTACCCCTTACTGTGGAATGCTGAAAGTGAAGATCG 1402  
Qy 1287 AGAA 1290  
Db 1403 CGAA 1406

RESULT 4  
US-08-488-135-13  
; Sequence 13, Application US/08488135  
; Patent No. 5766910  
; GENERAL INFORMATION:



FILING DATE: 09-SEP-1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Campbell, Cathryn A.  
 REGISTRATION NUMBER: 31,815  
 REFERENCE/DOCKET NUMBER: P-LJ 9226  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 535-9001  
 TELEFAX: (619) 535-8949  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1807 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 255..1454  
 US-08-474-065-13

Query Match 13.6%; Score 185.2; DB 2; Length 1807;  
 Best Local Similarity 52.1%; Pred. No. 6,4e-41;  
 Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;

327 TTGTGACATTTATCAGACTCTAAGAGGTTAAGCTCAAAAGCTTGTCTCAAGAGAGAGA 386  
 467 TTGCAAGAAATCTTGAGCCAGAGCCAGCACTACACAGCCCTTATCTAAGAAAGAAC 526  
 387 AAGCTTCCCAATGACCTATTCTTGTGTGTCACAAAGATGCAATTAATGTTGAAGGCT 446  
 527 TGACTTCCCTTGAGCAATATATATGATGATCAATCACTTGTGACACCTTTGCAAGGCT 586  
 447 TATCCATGCTATATACACAGCAGCAATATTTACTGCATCATCATATATATGTAAGGACC 506  
 587 CTTCAGGCTATTATACATGCCCCAATAATCTACTGTTCACGTGGAAGAAAGAACAC 646  
 507 TGATACCTTCAAGTTGCCATGAAACAATTTAGCTAAGTGTCTTCCAAATTTTCTATGCG 566  
 647 AACTGATTTAAAGATGCGGTAGAGCAACTATTAAGCTGTCTCCAAAGCCTTTCTGCG 706  
 567 TTCCAAATTTAGAGGCTGTGAAATATGCCCCAATTTCCAGACTCCAGGCTGATTTAAATG 626  
 707 TTCCAAATTTAGAGGCTGTGAAATATGCCCCAATTTCCAGACTCCAGGCTGATTTAAATG 766  
 627 CTGTGAGACCTTCTGAAGTCTTCAATCCAGTGAATATGTAATCACTTGTGAGGCA 686  
 767 CATCAGAGATCTTCTGCTTCGAGGTCTCATGGAAGTACGTTATCAACACCTGTGAGCA 826  
 687 AGATTTTCCCTGAAGTCAATTTTGAATGGTGTGAGGTTGAAAACTCAATGAGAGC 746  
 827 AGACTTCCCTGAAAAACAAAGAAATATGTTCAATCTGAAAGGATTTTAAAGGTA 886  
 747 AATATGTTGAGAGCGGTGAAGCCCAACAGTAAATTTGAAAGATTCCTTACCATCA 806  
 887 AATATCAACCCAGGGGTGCTGCCCCAGCTCATGCAATTTGACGAGCTAAATATGTCCA 946  
 807 TGAATTTAGAGGCTGTGAAATATGTAAGTGTGAAAGTGTGAAAGGATTTTAAAGGTA 866  
 947 CCAAGAGACCTGTGAGCA-----AAGAGCTTCTCTATGTAAGAAACAAAGGTTGAA 1000  
 867 GGAAGCAACCCCAATCAATTCAGATATTTGTTGAGAGTGTGCTTATTTTGTTTAAGTCA 926  
 1001 ACCGCTTCCCCCAATATCTCACAATTTACTTTGGCTGTGCTATGTGCTCATATCAG 1060  
 927 AGCATTTGTAAATATATTTTCAACAATCCATGCTTCAAGCTTTTGTGCTGTGCTAA 986  
 1061 AGAGTTTCCCAACTTTGTTGCAATGACCCAGGCTGTGATTTGCTTCCAGTGTGCTCA 1120  
 987 AGACACATATCTCTCTGATGAGCACTTTTGGGCTAATCTTGAATTTGGGTTCCAGGAATACC 1046  
 1121 GACACCTTCACTCTGATGAGCAATTTTGGGTTGACATCAATGGAATTTCCAGGTTGCC 1180  
 1047 TGGGAGATTTTCAAGATCAAGCCAGAGATGTCTGATGTGAGAGTAAAGTCTGCCCTTGT 1106

Db 1181 TTGCTCTATGCCAAATGCAATCTCGACTG-----GAACTCATGAGCTAT 1225  
 1107 CAAGTGAATTTACTATGAGAGGCTTTTCTATCCAGTTGACTGATCTACCTTTGAGAG 1166  
 1226 AAGTGAAGTGAATGAG 1282  
 1167 CGGTGATTTATGAGAGCTGAGAAATTAAGTGGCTTATCAAGATGACATTTGCTTGC 1226  
 1283 TATTTGATTTATGAG 1342  
 1227 TAAATTAATTTGATTTAG 1286  
 1343 TAAACAGTTTGAAGTTATATCTTACCCCTTACTGTGAGATGCTGAACTGAGAGATCG 1402  
 1287 AGAA 1290  
 1403 CGAA 1406

RESULT 6  
 US-07-955-041-3  
 Sequence 3, Application US/07955041  
 Patent No. 5360733  
 GENERAL INFORMATION:  
 APPLICANT: FUKUDA, MINORU  
 APPLICANT: BIERHUIZEN, MARTI FA  
 TITLE OF INVENTION: A NOVEL BETA1-6  
 TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,  
 TITLE OF INVENTION: LEUKOSILIN AND A METHOD FOR CLONING PROTEINS HAVING  
 TITLE OF INVENTION: ENZYMACTIC ACTIVITY  
 NUMBER OF SEQUENCES: 8  
 CORRESPONDENCE ADDRESSES:  
 ADDRESS: CAMPBELL AND FLORES  
 STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
 CITY: SAN DIEGO  
 STATE: CALIFORNIA  
 COUNTRY: USA  
 ZIP: 92122  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/955,041  
 FILING DATE: 19921001  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: CAMPBELL, CATHRYN  
 REGISTRATION NUMBER: 31,815  
 REFERENCE/DOCKET NUMBER: P-LJ 9226  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-535-9001  
 TELEFAX: 619-535-8949  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2105 base pairs  
 TYPE: NUCLEIC ACID  
 STRANDEDNESS: both  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 220..1504  
 FEATURE:  
 NAME/KEY: POLYA\_signal  
 LOCATION: 1913..1918  
 FEATURE:  
 NAME/KEY: misc\_signal  
 LOCATION: 248..314  
 OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"

US-07-955-041-3

Query Match 12.6%; Score 172; DB 1; Length 2105;  
 Best Local Similarity 51.7%; Pred. No. 2.6e-37;  
 Matches 515; Conservative 0; Mismatches 445; Indels 36; Gaps 4;

QY 300 TGATGATGTTGGCAATGACAGTATGTCATTTATGACCTTAAGAGTTATGC 359  
 DB 489 TGAAGCTATATTAACATGACAGTATGTTCTTCTTCATCAAGAGCGCAATATAT 548  
 QY 360 TCAAAAGCTTGTCTCAAGAGAGAGAAAGCTTCCCAATAGCCTATTTGGTGTCA 419  
 DB 549 TGTGAAGCCCTTAGTAAAGAGAGCGGAGTTTCCAAATAGATATTTGATGTGTTCA 608  
 QY 420 CAAAGATGCAATATGTTGAAAGGCTTATCCATGCTATATACACAGCAATATTTA 479  
 DB 609 TCACAAGATGAAATGCTTGAACGCTGTGAGGGCATATATGCTCAGAAATTTCTA 668  
 QY 480 CTGCATCATTTATGATGCTAAGCAGCTGATACCTTCAAGTGCATGACAAATTTAGC 539  
 DB 669 TTGCGTTATGTTGACACAAATCCAGAGATTCCTATTTAGCTGACAGTATGGCATGCG 728  
 QY 540 TAAGTCTTCTCCAAATTTTCTTCTTCAATTTAGAGCTGTGAAATATGCCACAT 599  
 DB 729 TTCCCTTTTATGATGCTTGTGTGCGCAGCGATGAGAGTGTGTTATGCAATGCTG 788  
 QY 600 TTCCAGACTCCAGGCTGATTTAAATGCTTGTGCGACCTTGAAGTCTTCAATCCAGTG 659  
 DB 789 GAGCGGGTTCAAGCTGACCTCACTGATGATGAAGATCTCTATGCAATGAGCAAACTG 848  
 QY 660 GAAATATGTTATCACTTGTGTGGGCAAGATTTTCCCTGAAGTCAATTTGAAATGCT 719  
 DB 849 GAAGTCTTGAATTAATCTTGTGTGTGATGATTTTCCATTAACCACTGAATTTGT 908  
 QY 720 GTAGAGTTGAAAGAACTCAATGAGCAATATGTTGAGAGAGGAGAAACCCCAAG 779  
 DB 909 CAGAGAGCTCAAGTGTATGAGAGAAACAACTGAGAAAGAGAGATGCCATCCCA 968  
 QY 780 TAAATGGAAGATTCATTCATCATCATGATTAAGAGAGGCTTATGATATGTA 839  
 DB 969 TAAAGAAAGAGGTGAGAGAGCGGTATGA-----GTCGTTATGAGAAAGCTGAC 1019  
 QY 840 GCTACCAATAGAGCAAAATCTCCAGAGAGACCCCCCAATCATTCAGATTTTGT 899  
 DB 1020 -----AACAACAGGAGCTGTCAAAATGCTTCTCTCACTGAGAAACCTCTCTTTC 1070  
 QY 900 TGGCAGTGTATTTTGTGTTTAAATGACATTTGTTAAATATTTTCAACACTCAT 959  
 DB 1071 TGGCAGTGTCTTCTGTTGTGTGATGAGAGTATGTGGGTATGATCTACAGATGAAA 1130  
 QY 960 CGTTCAAGACTTTTGTGCTGTCTAAAGACATATCTCTCTGATGAGACTTTTGGGC 1019  
 DB 1131 AATCCAAAGTGTATGAGAGGTGAGCAACATACAGCCCTGATGATATCTCTGGGC 1190  
 QY 1020 TACCTTGATTCGGGTTCCAGAAATACCTGAGAGAT---TTCAGATTCAGCCAGAGAT 1076  
 DB 1191 CACCATCCAAAGATTCCTGAGATCCCGGGCTCACTCCCTGCAAGCATAAGTATGATCT 1250  
 QY 1077 GTTGTATCTGCAAGTAAAGTCTGCTTGTCAAGTGAATTAATGAAAGGCTTTT--- 1133  
 DB 1251 ATCTGACATGCAAGCAGTGTGCGAGTTTGTCAAGTGTGAGTGTGAGGGAGTGTTC 1310  
 QY 1134 -----CTATCCAGTGTGATCTGATCTCACTTCAAGAGGCTGTATTTATG 1181  
 DB 1311 CAAAGGTGCTCCCTACCCGCCCTGCGATGAGATGCCATGTGCGCTGATGTGATTTTGG 1370  
 QY 1182 AGCTGCAAGATTAAGGTGCTTATCAAAAGTGAATGTGTTTGTCTAATTAATTTGATTC 1241  
 DB 1371 AGCTGAGACTTAAAGTGAATGTGCGCAACACCTTGTGTTGCCAATTAAGTTGACGT 1430  
 QY 1242 TAAAGTGAACCTATCTTGAATTAATGCTTGGCAGA 1277  
 DB 1431 GGAATGTGACCTCTTTGCCATCCAGTCTTTGATGA 1466

RESULT 7

US-08-227-455-3  
 ; Sequence 3; Application US/08227455  
 ; Patent No. 5624832

GENERAL INFORMATION:

APPLICANT: FUKUDA, MINORU

TITLE OF INVENTION: A NOVEL BETAL-6

TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,

TITLE OF INVENTION: LEUCOSILIN AND A METHOD FOR CLONING PROTEINS HAVING

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700

CITY: SAN DIEGO

STATE: CALIFORNIA

COUNTRY: USA

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/227,455

FILING DATE: 14-Apr-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: CAMPBELL, CATRYN

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-LJ 9957

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-535-9001

TELEFAX: 619-535-8949

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 2105 base pairs

TYPE: nucleic acid

STRANDEDNESS: both

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 220..1504

FEATURE:

NAME/KEY: polyA signal

LOCATION: 1913..1918

Query Match

12.6%; Score 172; DB 1; Length 2105;  
 Best Local Similarity 51.7%; Pred. No. 2.6e-37;  
 Matches 515; Conservative 0; Mismatches 445; Indels 36; Gaps 4;

QY 300 TGATGATGTTGGCAATGACAGTATGTCATTTATGACCTTAAGAGTTATGC 359  
 DB 489 TGAAGCTATATTAACATGACAGTATGTTCTTCTTCTTCATCAAGAGCGCAATATAT 548  
 QY 360 TCAAAAGCTTGTCTCAAGAGAGAGAAAGCTTCCCAATAGCCTATTTGGTGTCA 419  
 DB 549 TGTGAAGCCCTTAGTAAAGAGAGCGGAGTTTCCAAATAGATATTTGATGTGTTCA 608  
 QY 420 CAAAGATGCAATATGTTGAAAGGCTTATCCATGCTATATACACAGCAATATTTA 479  
 DB 609 TCACAAGATGAAATGCTTGAACGCTGTGAGGGCATATATGCTCAGAAATTTCTA 668

QY 480 CTGCATCCATATATGATGCTAAGGACCTGATACCTTCAAAAGTTGGCATGACAAATTTAGC 539  
 DB 669 TTGGCTTCAATGTTGGAACAATAATCCGAGATTCCTAATTTAGTGAAGATGGAGCATGC 728  
 QY 540 TAAGTCTTCTCCAAATATTTTCATTTGCTTCCAAATATAGAGCTGTGAATATGCCACAT 599  
 DB 729 TTCCGTGTTTAAATAGTCTTTGTGTGCGCAGCATTTGAGAGATGTGGTTTATGATCGTG 788  
 QY 600 TTCCAGACTCCAGGCTGATTTAAATGCTTTGTGCGACCTTCTGAAGCTTCAATCCAGTG 659  
 DB 789 GAGCCGGGTTCAGGCTGACCTCAACGTCATGAAAGATCTCTATGCAATGAGTGCAAACTG 848  
 QY 660 GAAATATGTTATCACTTGTGTTGAGGCAAGATTTTCCCGTGAAGTCAAAATTTGAATGGT 719  
 DB 849 GAAGTACTGATTAACCTTTGTGTGATGATGATTTTCCCATTAACCACTTGAAATGTG 908  
 QY 720 GTCCAGGTTGAAAAAATCAATGAGCAAAATATGTTGAGACGGTGAAACCCCAACAG 779  
 DB 909 CAGGAAGCTCAAGTTGTATATGGAGAAAAACAACCGGAAACGGAGAGATGCCATCCCA 968  
 QY 780 TAAATTGAAAGATCACTTACATCATGATGAACCTTAGAGGGGTGCTTATGATATGTGA 839  
 DB 969 TAAAGAAAGAGGTGGAAGAGCGGTATGA-----GCTGTATATGAGAAAGCTGAC 1019  
 QY 840 GCTACCAATAGGACAAACATCTCAAGAGACACCCGCCATTAACATTCAGATATTTGT 899  
 DB 1020 -----AAACACAGGGAGCTGTCAAAATGCTTCTCCATCGAAACACCTCTCTTTTC 1070  
 QY 900 TGGCAGTCTTATTTTGTTTTAAATGCAACATTTGTTAAATATTTTCAACAATCCAT 959  
 DB 1071 TGCGAGTCTTACTTGTGTGTGATGAGATGAGGATGAGGATGATCTACAGAAATGAAA 1130  
 QY 960 CGTTCAAGACTTTTGTGCTGTCTAAGACATATCTCTCTGATGAGCACTTTTGGGC 1019  
 DB 1131 AATCCAAAGTTGATGAGAGTGGGACACAAGACATACACCTCGATGATATCTCGGGC 1190  
 QY 1020 TACTTGATTCGGGTTCCAGGAATACCTGGGGAGAT---TTCCAATACGCCAGAGAT 1076  
 DB 1191 CACCATCCAAAGATTCCTGAAATCCCGGGCTCACCTCCGACAGCATTAATGATGACT 1250  
 QY 1077 GCTGATCTGCAAGATGAAAGCTGCTTGCAGAGTGAATTAATGAAAGGCTTTT--- 1133  
 DB 1251 ATGTGACATGCAAGCAAGCTGCGAGTTTGTCAAGTGGCACTTTGAGAGGATGTTTC 1310  
 QY 1134 -----CTATCCAGTTGTAATGATGATCTTCCAGAGCTGTGATTTATG 1181  
 DB 1311 CAGGGTGTCTCTACCCGCGCTCGATGAGTCCATGTGCGCTCAGTGTGATTTTCG 1370  
 QY 1182 AGCTGAGAAATTAAGAGGCTTATCAAGATGAGCAATGTTGCTAAATTAATTTGATT 1241  
 DB 1371 AGCTGATGACTTAAGCTGATGCTGTGCGCAACCACTTGTGTTGCCAATTAAGTTGAGCT 1430  
 QY 1242 TAAGTGACCTTATCTTGAATTAATGCTTGGCAGA 1277  
 DB 1431 GAGTGTGACCTCTTGGCATCCAGTGTGGATGA 1466

RESULT 8  
 US-08-472-482-3  
 ; Sequence 3, Application US/08472482  
 ; Patent No. 5658778  
 ; GENERAL INFORMATION:  
 ; APPLICANT: FUKUDA, MINORU  
 ; APPLICANT: BIERHUIZEN, MARTI FA  
 ; TITLE OF INVENTION: A NOVEL BRN1-6  
 ; TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,  
 ; TITLE OF INVENTION: LEUCOSIDIN AND A METHOD FOR CLONING PROTEINS HAVING  
 ; TITLE OF INVENTION: ENZYMAIC ACTIVITY  
 ; NUMBER OF SEQUENCES: 8  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: CAMPBELL AND FLORES  
 ; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
 ; CITY: SAN DIEGO

STATE: CALIFORNIA  
 COUNTRY: USA  
 ZIP: 92122  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/472,482  
 FILING DATE:  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/955,041  
 FILING DATE: 01-OCT-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: CAMPBELL, CATHERIN  
 REGISTRATION NUMBER: 31,815  
 REFERENCE/DOCKET NUMBER: P-LJ 9294  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-535-9001  
 TELEFAX: 619-535-8949  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 220..1504  
 FEATURE:  
 NAME/KEY: polyA signal  
 LOCATION: 1913..1918  
 FEATURE:  
 NAME/KEY: misc signal  
 LOCATION: 248..314  
 OTHER INFORMATION: /standard name=  
 OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"  
 US-08-472-482-3

Query Match 12.6%; Score 172; DB 1; Length 2105;  
 Best Local Similarity 51.7%; Pred. No. 2.6e-37; Indels 36; Gaps 4;  
 Matches 515; Conservative 0; Mismatches 445;

QY 300 TGATGATGTTGTGCAATGACCAAGTATGTGACATTTATCAAGCTCTAAGAGTTATGC 359  
 DB 489 TGAAGCATATATTAACATGACCAAGTATGTTCTTCTTTCATCAAGAGCAAGCAATATAT 548  
 QY 360 TCAAAAGCTGTCTCAAGAGAGGAGAAAGCTTCCCAATAGCCATTTCTTGGTGTCCA 419  
 DB 549 TGTGAACCCCTTAAGTAAAGAGAGGAGGAGTTTCCAAATGCAATTTCTAATGAGTTCA 608  
 QY 420 CAAAGATGCAATTAATGTTGAAAGGCTTATCAATGCTATATACCAACGACGACAAATATTA 479  
 DB 609 TCACAAATGGAATGCTTGTACAGGCTGTGAGGGGCATATATATGCTCAGAAATTTCTA 668  
 QY 480 CTGCATCCATATATGATGCTAAGGACCTGATACCTTCAAAAGTTGCCATGAACAATTTAGC 539  
 DB 669 TTGGCTTCAATGTTGGAACAATAATCCGAGATTCCTAATTTAGTGAAGATGGAGCATGC 728  
 QY 540 TAAGTCTTCTCCAAATATTTTCATTTGCTTCCAAATATAGAGCTGTGAATATGCCACAT 599  
 DB 729 TTCCGTGTTTAAATAGTCTTTGTGTGCGCAGCATTTGAGAGATGTGGTTTATGATCGTG 788  
 QY 600 TTCCAGACTCCAGGCTGATTTAAATGCTTTGTGCGACCTTCTGAAGCTTCAATCCAGTG 659  
 DB 789 GAGCCGGGTTCAGGCTGACCTCAACGTCATGAAAGATCTCTATGCAATGAGTGCAAACTG 848  
 QY 660 GAAATATGTTATCACTTGTGTTGAGGCAAGATTTTCCCGTGAAGTCAAAATTTGAATGGT 719  
 DB 849 GAAGTACTGATTAACCTTTGTGTGATGATGATTTTCCCATTAACCACTTGAAATGTG 908

QY 720 GTGAGAGTTGAAAAAAGCTCATGAGCAATATGTTGAGACGCTGAAACCCCAAG 779  
 DB 909 CAGGAAAGCTCAAGTTGTTATGGAGAAAAACACCTGGAAAGGAGAGATGCCATCCCA 968  
 QY 780 TAAATTGAAAGATTACTTACCTATCATATGACTAGACGGGTGCTTATGAAATGTA 839  
 DB 969 TAAAGAAAGAGGTGAGAGAGGGATGA-----GGTGTAAATGAAAGCTTAC 1019  
 QY 840 GCTACCAATAGAGCAAACTCTCCAGAGAGACCCCAATTAATTCAGATTTTGT 899  
 DB 1020 -----AAACACAGGAGCTCTAAATGCTTCTTCACTGAAACCTCTTTTC 1070  
 QY 900 TGGCAGTGTCTATTTTGTGTTTAAATGCAAGCATTTGTTAAATATTTTCAACATCCAT 959  
 DB 1071 TGGCAGTGTCTACTTGTGTCAGTAGGAGATATGGGGATATGTAATAAGAAATA 1130  
 QY 960 CGTTCAAGACTTTTGGCTGCTTAAAGACATCTCTCTGATGAGCACTTTTGGGC 1019  
 DB 1131 AATCCAAAGTTATGATGAGTGGGACAAAGACATACACCTGATGATCTCTGGGC 1190  
 QY 1020 TACCTTGATTCGGGTTCCAGAAATACCTGGGAGAT--TTCCAATCAGCCCAAGAT 1076  
 DB 1191 CACCATCCAAAGGATTCCTGAAAGTCCCGGCTCACTCCCTGCAAGCATATGATGATCT 1250  
 QY 1077 GTCTGATCTGCAAGTAAGACTGCTGCTGCAAGTGAATTAATGAAAGGCTTTT--- 1133  
 DB 1251 ATCTGACATGCAAGCAAGTCCAGGTTTGTCAAGTGGCACTTCTTGAAGGATGATGTTTC 1310  
 QY 1134 -----CTATCCAGTTGTACTGATCTCACTTGAAGGCTGTGATTTTANG 1181  
 DB 1311 CAAGGCTGCTCCCTACCCCGCCCTGCATGAGATGCCATGTCGCTGATGATTTCCG 1370  
 QY 1182 AGCTGCAAGATTAAAGGCTTATCAAAATGAGCACTGGTTGTAATTAATTTGATTC 1241  
 DB 1371 AGCTGCTGACTTAAGATGATGCTGCGCAACACCACTGTTTGGCAATTAAGTTGACGT 1430  
 QY 1242 TAAGTGACCTTATCTTGAATTAATGCTTGGCAGA 1277  
 DB 1431 GATGTGACCTCTTGGCCATCCAGTGTGATGA 1466

RESULT 9  
 US-08-487-069-3  
 ; Sequence 3, Application US/08487069  
 ; Patent No. 5684134  
 GENERAL INFORMATION:  
 APPLICANT: FUKUDA, MINORU  
 APPLICANT: BIERHUIZEN, MARTI FA  
 TITLE OF INVENTION: A NOVEL BETAL-6  
 TITLE OF INVENTION: N-ACETYLGALACTOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,  
 TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING  
 TITLE OF INVENTION: ENZYMAIC ACTIVITY  
 NUMBER OF SEQUENCES: 8  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: CAMPBELL AND FLORES  
 STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
 CITY: SAN DIEGO  
 STATE: CALIFORNIA  
 COUNTRY: USA  
 ZIP: 92122  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/487,069  
 FILING DATE:  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/955,041  
 FILING DATE: 01-OCT-1992

ATTORNEY/AGENT INFORMATION:  
 NAME: CAMPBELL, CATRYN  
 REGISTRATION NUMBER: 31,815  
 REFERENCE/DOCKET NUMBER: P-LJ 9294  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-535-9001  
 TELEFAX: 619-535-8849  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2105 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 220..1504  
 FEATURE:  
 NAME/KEY: polyA signal  
 LOCATION: 1913..1918  
 NAME/KEY: misc signal  
 LOCATION: 248..314 /standard name=  
 OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"  
 US-08-487-069-3

Query Match 12.6%; Score 172; DB 1; Length 2105;  
 Best Local Similarity 51.7%; Pred. No. 2,6e-37;  
 Matches 515; Conservative 0; Mismatches 445; Indels 36; Gaps 4;  
 QY 300 TGATGATGTTGTGCAATGACCAAGTATGTCATTTATCAAGCTCTAAGAGTTATGC 359  
 DB 489 TGACGACTAATATAAACAATGACCAAGTACTGTTCTTTTCATCAAGAGCAAAATATAT 548  
 QY 360 TCAAAAGCTGTCTCCANAGAGAGAGAAAGCTTCCCAATAGCCATTTCTTGTGTGCA 419  
 DB 549 TGTGAACCCCTTATGTAAGAGAGGCGGAGTTTCCAAATGCAATATTTCTATAGTGTCA 608  
 QY 420 CAAGATGCAATTAATGTTGTAAGAGCTTATCATGCTATATACAAACGACGACATATTTA 479  
 DB 609 TCACAAGATTGAATGCTTGACAGGTGCTGAGGGCCATCATATATGCTCAGAAATTTCTA 668  
 QY 480 CTGCATCATTAATGATGTAAGGACCTGATACCTTCAAGTTGCCATGAAACATTTAGC 539  
 DB 669 TTGCGTTATGTTGACACAAATCCAGGATTCCTATTTAGCTGCAATGATGGCATGCG 728  
 QY 540 TAAGTCTTCTCCAAATATTTTCATTGCTTCCAAATTAAGAGCTGTGAAATATGCCCACAT 599  
 DB 729 TTCTGTTTATGTAATGCTTGTGTCGACGCAATGGAAGTGTGTTATGATGATGCTG 788  
 QY 600 TTCCAGACTCAGAGCTGATTTAAATGCTGTGGGACCTTCTGAAGCTTCAATCCAGTG 659  
 DB 789 GAGCGGGTTAGAGCTGACCTCAACTGATGAAAGATCTCTAGCAATGAGTGCAAACTG 848  
 QY 660 GAATATGTTATCAACTGTGTGCGCAAGATTTTCCCTGAAAGTCAATTTTGAATTTGT 719  
 DB 849 GAGTACTGATTAATCTTGTGTGATGATGATTTTCCATTAACCAACCTGAAATTTGT 908  
 QY 720 GTGAGAGTTGAAAAAAGCTCAATGAGCAAAATATGTTGAGACGCTGAAACCCCAACAG 779  
 DB 909 CAGGAAAGCTCAAGTTGTTAATGGAGAAACAACTGAAACGAGAGATGCCATCCCA 968  
 QY 780 TAAATTGAAAGATTCACTTACCTATCATATGACTAGACGGGTGCTTATGAAATGTA 839  
 DB 969 TAAAGAAAGAGGTGAGAGAGGGATGA-----GGTGTAAATGAAAGCTTAC 1019  
 QY 840 GCTACCAATAGAGCAAACTCTCCAGAGAGACCCCAATTAATTCAGATTTTGT 899  
 DB 1020 -----AAACACAGGAGCTCTAAATGCTTCTTCACTGAAACCTCTTTTC 1070  
 QY 900 TGGCAGTGTCTATTTTGTGTTTAAATGCAAGCATTTGTTAAATATTTTCAACATCCAT 959





RESULT 11  
US-08-118-906-1  
Sequence 1, Application US/08118906  
Patent No. 5484590  
GENERAL INFORMATION:  
APPLICANT: Fukuda, Minoru  
TITLE OF INVENTION: Expression of the Developmental I  
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESSES:  
ADDRESS: Campbell and Flores  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/118,906  
FILING DATE: 09-SEP-1993  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 9526  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-8949  
TELEFAX: (619) 535-9001  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 378 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..378  
US-08-118-906-1

Query Match 8.3%; Score 121.2; DB 1; Length 378;  
Best Local Similarity 58.2%; Pred. No. 9.7e-24;  
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;

QY 367 CTGTGCTCAAGAGGAGGAAAGCTTCCCAATAGCCATCTTGGTGTCCCAAGAT 426  
DB 13 CTTTATCTAAGAGGAGGAGCTGACTTCCCTTGCAATATTAAGTGCATCCATCTGAC 72

QY 427 GCAATTATGTTGAAGGCTTATCCATGCTATATACACGACGACATATTTACTGCATC 486  
DB 73 TTGACACCTTTGGAAGGCTCTCAGGCTATTTAATGCCCCAAATATCTATGTT 132

QY 487 CATTAATATGTAAGGACCTGATACCTTCAAAAGTGGCATGAACAATTTAGTAAGTC 546  
DB 133 CATGTGATGAAAAAGCAACACTGAATTTAAAGATGCGGTAGAGCAACTATTAACTGC 192

QY 547 TTCTCAATATTTTCATGCTTCCCAATTAGAGGCTGTGATATGCCCCCATTTCCAGA 606  
DB 193 TTCCCAAGCCTTTTCGTGCTCCCAATGGAACCGTTGTCTATGAGAGGATCTCCAG 252

QY 607 CTCAGGCTGATTTAAATTTGCTGTGAGACCTTCTGAAGTCTTCAATCCAGTGAATAT 666  
DB 253 CTCAGGCTGACCTGAACCTGATCAGATCTTTCCTTCGAGGCTTCATGGAAGTAC 312

QY 667 GTATCAACTGTGTGGGCAAGATTTTCCCTGAGTCAATTTTGAATTTGATGTCAGAG 726  
DB 313 GTTATCAACACCTGTGGGCAAGACTTCCCTGTGAAACCAAGGAATATGTTCAGTAT 372

RESULT 12  
US-08-486-196-1  
Sequence 1, Application US/08486196  
Patent No. 5731420  
GENERAL INFORMATION:  
APPLICANT: Fukuda, Minoru  
TITLE OF INVENTION: Expression of the Developmental I  
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESSES:  
ADDRESS: Campbell and Flores  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/486,196  
FILING DATE:  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/118,906  
FILING DATE: 09-SEP-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 9526  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-9001  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 378 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..378  
US-08-486-196-1

Query Match 8.3%; Score 121.2; DB 1; Length 378;  
Best Local Similarity 58.2%; Pred. No. 9.7e-24;  
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;

QY 367 CTGTGCTCAAGAGGAGGAAAGCTTCCCAATAGCCATCTTGGTGTCCCAAGAT 426  
DB 13 CTTTATCTAAGAGGAGGAGCTGACTTCCCTTGCAATATTAAGTGCATCCATCTGAC 72

QY 427 GCAATTATGTTGAAGGCTTATCCATGCTATATACACGACGACATATTTACTGCATC 486  
DB 73 TTGACACCTTTGGAAGGCTCTCAGGCTATTTAATGCCCCAAATATCTATGTT 132

QY 487 CATTAATATGTAAGGACCTGATACCTTCAAAAGTGGCATGAACAATTTAGTAAGTC 546  
DB 133 CATGTGATGAAAAAGCAACACTGAATTTAAAGATGCGGTAGAGCAACTATTAACTGC 192

QY 547 TTCTCAATATTTTCATGCTTCCCAATTAGAGGCTGTGATATGCCCCCATTTCCAGA 606

Db 193 TTCCCAAGCGTTTCTTGCTTCCAGATGAAACCCGTTGTCTATGAGAGGATCTCCAGG 252  
QY 607 CTCACGCTGATTTAAATGCTTGCGAGCCTTCTGAGCTTCAATCCAGTGAATAAT 666  
Db 253 CTCACGCTGAGCTGAGCTGATCAGATGATCTTCTGCTGAGGCTCATGAAATAC 312  
QY 667 GTTATCACTTGTGTGGGCAAGATTTTCCCTGAAATCAATTTGAAATGGTGTCAAG 726  
Db 313 GTTATCAACACCTGTGGGCAAGACTTCCCTGAAACCAACAGGAATAATGTCAGTAT 372  
QY 727 TTGAAA 732  
Db 373 CTGAAA 378

RESULT 13  
US-08-488-135-1  
Sequence 1, Application US/08488135  
Patent No. 5766910  
GENERAL INFORMATION:  
APPLICANT: Fukuda, Minoru  
TITLE OF INVENTION: Expression of the Developmental I  
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a  
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Campbell and Flores  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/488,135  
FILING DATE:  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/118,906  
FILING DATE: 09-SEP-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 9526  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-9001  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 378 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..378  
US-08-488-135-1

Query Match 8.9%; Score 121.2; DB 1; Length 378;  
Best Local Similarity 58.2%; Pred. No. 9.7e-24;  
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;

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Db 73 TTGACACCTTTGGAAGGCTCTTCAGGCTATTTATACATGCCCCAATAATATCATCTGTG 132  
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Db 133 CATGTGATGTAAGGACCAACAGTATTTAAAGATCGGTAGAGCAATATTAAGTGC 192  
QY 547 TTCTCAATATTTTCAATGCTTCCAAATTTAGAGCTGTGAATATGCCCATTTCCAGA 606  
Db 193 TTCCCAAGCGTTTCTTGCTTCCAGATGAAACCCGTTGTCTATGAGAGGATCTCCAGG 252  
QY 607 CTCACGCTGATTTAAATGCTTGCGAGCCTTCTGAGCTTCAATCCAGTGAATAAT 666  
Db 253 CTCACGCTGAGCTGAGCTGATCAGATGATCTTCTGCTGAGGCTCATGAAATAC 312  
QY 667 GTTATCACTTGTGTGGGCAAGATTTTCCCTGAAATCAATTTTGAATGGTGTCAAG 726  
Db 313 GTTATCAACACCTGTGGGCAAGACTTCCCTGAAACCAACAGGAATAATGTCAGTAT 372  
QY 727 TTGAAA 732  
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RESULT 14  
US-08-474-065-1  
Sequence 1, Application US/08474065  
Patent No. 5830465  
GENERAL INFORMATION:  
APPLICANT: Fukuda, Minoru  
TITLE OF INVENTION: Expression of the Developmental I  
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a  
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Campbell and Flores  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/474,065  
FILING DATE:  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/118,906  
FILING DATE: 09-SEP-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 9526  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-9001  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 378 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..378  
US-08-474-065-1



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: January 31, 2004, 14:13:05 ; Search time 524 Seconds

(without alignments)  
9473.065 Million cell updates/sec

Title: US-10-084-406-1

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Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 2434939 seqs, 1822278265 residues

Total number of hits satisfying chosen parameters: 4869878

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1362	100.0	1362	US-10-388-307-1	Sequence 1, Appl 1
2	1362	100.0	1362	US-10-084-406-1	Sequence 1, Appl 1
3	1362	100.0	1362	US-09-793-998-10	Sequence 10, Appl 1
4	949	69.7	1362	US-09-793-998-7	Sequence 7, Appl 1
5	312.6	23.0	1362	US-09-793-998-1	Sequence 1, Appl 1
6	131.8	14.1	1221	US-09-797-207-12	Sequence 12, Appl 1
7	131.8	14.1	1317	US-09-797-207-1	Sequence 1, Appl 1
8	131.8	14.1	1317	US-10-388-307-14	Sequence 14, Appl 1
9	131.8	14.1	1317	US-10-084-406-14	Sequence 14, Appl 1
10	131.8	14.1	2108	US-09-797-207-3	Sequence 3, Appl 1
11	131.8	14.1	2147	US-09-981-353-43	Sequence 43, Appl 1
12	131.8	14.1	2229	US-09-925-397-337	Sequence 337, Appl 1
13	131.8	14.1	2236	US-10-106-698-1555	Sequence 1555, Appl 1
14	131.8	14.1	2319	US-09-874-390-1	Sequence 1, Appl 1
15	185.2	13.6	1203	US-10-388-307-16	Sequence 16, Appl 1

16	185.2	13.6	1203	US-10-084-406-16	Sequence 16, Appl 1
17	175.8	12.9	1314	US-09-797-207-19	Sequence 19, Appl 1
18	172	12.6	1287	US-10-388-307-12	Sequence 12, Appl 1
19	172	12.6	1287	US-10-084-406-12	Sequence 12, Appl 1
20	172	12.6	2110	US-09-962-832-123	Sequence 123, Appl 1
21	172	12.6	2110	US-09-954-456-737	Sequence 737, Appl 1
22	161.6	11.9	2109	US-09-797-207-13	Sequence 13, Appl 1
23	147	10.8	549	US-10-029-386-4453	Sequence 4453, Appl 1
24	138.6	10.2	361	US-10-029-386-18153	Sequence 18153, Appl 1
25	117.2	8.6	1451	US-09-918-995-3027	Sequence 3027, Appl 1
26	108.4	8.0	527	US-10-029-386-2317	Sequence 2317, Appl 1
27	80.8	5.9	997	US-09-809-391-307	Sequence 307, Appl 1
28	80.8	5.9	997	US-09-882-171-307	Sequence 307, Appl 1
29	71.2	5.2	2854	US-10-108-260A-2321	Sequence 2321, Appl 1
30	69	5.1	471	US-09-898-596-1060	Sequence 1060, Appl 1
31	64.4	4.7	173	US-10-029-386-16017	Sequence 16017, Appl 1
32	50.6	3.7	306	US-09-878-178-940	Sequence 940, Appl 1
33	50.6	3.7	306	US-09-878-178-2116	Sequence 2116, Appl 1
34	50.6	3.7	306	US-10-046-935-940	Sequence 940, Appl 1
35	50.6	3.7	306	US-10-046-935-2116	Sequence 2116, Appl 1
36	50.6	3.7	306	US-10-146-502-940	Sequence 940, Appl 1
37	50.6	3.7	306	US-10-146-502-2116	Sequence 2116, Appl 1
38	50.6	3.7	306	US-10-060-036-1983	Sequence 1983, Appl 1
39	49.4	3.6	777	US-09-809-391-181	Sequence 181, Appl 1
40	49.4	3.6	777	US-09-882-171-181	Sequence 181, Appl 1
41	48.8	3.6	404	US-09-814-353-18915	Sequence 18915, Appl 1
42	48.8	3.5	285	US-09-814-353-21954	Sequence 21954, Appl 1
43	48.3	3.2	1944	US-09-815-242-9244	Sequence 9244, Appl 1
44	41.8	3.1	497	US-10-027-632-3021	Sequence 3021, Appl 1
45	41.8	3.1	497	US-10-027-632-3021	Sequence 3021, Appl 1

## ALIGNMENTS

RESULT 1	US-10-388-307-1	Application US/10388307
Sequence 1, Appl 1	Publication No. US20030180778A1	
GENERAL INFORMATION:		
APPLICANT:	Schientek, Tilo	
TITLE OF INVENTION:	UDP-N-Acetylglucosamine:	
TITLE OF INVENTION:	Galactose-6-epi-3-N-Acetylglucosamine-alpha-R / (G1C)AC	
FILE REFERENCE:	4503/1G031	
CURRENT APPLICATION NUMBER:	US/10/388, 307	
CURRENT FILING DATE:	2003-03-13	
PRIOR FILING DATE:	2000-08-24	
PRIOR APPLICATION NUMBER:	US 60/150,488	
PRIOR FILING DATE:	1999-08-24	
NUMBER OF SEQ ID NOS:	17	
SOFTWARE:	PasteSeq for Windows Version 3.0	
SEQ ID NO 1		
LENGTH:	1362	
TYPE:	DNA	
ORGANISM:	Human	
US-10-388-307-1		
Query Match	100.0%; Score 1362; DB 13; Length 1362;	
Best Local Similarity	100.0%; Pred. No. 0;	
Matches 1362; Conservative	0; Mismatches	0; Indels
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QY	61 TTAACCATGAGCTGCTCTCTTTGTTAAGCTTAAATGAGACGACTCTTCCGCA	120
DB	61 TTAACCATGAGCTGCTCTCTTTGTTAAGCTTAAATGAGACGACTCTTCCGCA	120
QY	121 AAAGCATTTACTGTTGAGTACTCCTTAAGTACTGCTTTGTTAAGAAACAGATAC	180

Dp	121	AAAGACATTA	ACTGGTGGAGTACTCCCTAAGTACCTGCGCTTTGTAAGAAACAGATAC	180
Qy	181	ACTGATGTTA	AGATGATGACGATGATGAAATTAAGTTAACTGTTGCGGTATCTATGAAACAGAG	240
Dp	181	ACTGATGTTA	AGATGATGAAAGTACGATGATGAAATTAAGTTAACTGTTGCGGTATCTATGAAACAGAG	240
Qy	241	CCTTTGGAAAT	TGGAAAGAGTCTGGAATAAAGAAAGGACATCATATTGACTTGGAGAT	300
Dp	241	CCTTTGGAAA	TTGGAAAAGCTGTGAAAATAAGAAAGGACATCATATTGACTTGGAGAT	300
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Dp	301	GATGATGTTG	TGGCAATGACACAGTATGTCATCTTATCAGACTCTAAGAGTTAGT	360
Qy	361	CAAAAGCTTG	CTCAAAAGAGAGAAAAGCTTCCCAATAGCTATCTTTGGTTGTCCAC	420
Dp	361	CAAAAGCTTG	CTCAAAAGAGAGAAAAGCTTCCCAATAGCTATCTTTGGTTGTCCAC	420
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Dp	421	AAAGATGCAAT	TATGATGTTGAAAGGCTTATCCATGCTATATACAGACAGCAATATTAC	480
Qy	481	TGCATCCATTA	TGATCGTAAGCACTGATACCTTCAAAGTTGCGATGAACAAATTAGCT	540
Dp	481	TGCATCCATTA	TGATCGTAAGCACTGATACCTTCAAAGTTGCGATGAACAAATTAGCT	540
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Dp	541	AAGGCTCTCC	CAATATTTTCATATGCTGCCAAATTAGAGCTGTGGAATATGCCACAT	600
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Qy	1021	ACCTTGATTC	CGGCTTCCAGAAATACCTGGGAGATTTCCAGATCAGCCCAAGATGTGCT	1080
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Qy	1081	GATCTGCAAG	AGTAACATCGCTTGTCAAGTGAATTCATGAAGGCTTTTCTATCC	1140
Dp	1081	GATCTGCAAG	AGTAACATCGCTTGTCAAGTGAATTCATGAAGGCTTTTCTATCC	1140
Qy	1141	AGTTGTACTG	AGATCTCACCTTTCGAAGCCTGTGTATTTATGAGAGCTGCAGAAATTAAGTGG	1200
Dp	1141	AGTTGTACTG	AGATCTCACCTTTCGAAGCCTGTGTATTTATGAGAGCTGCAGAAATTAAGTGG	1200
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Db      1201  CTTATCAAAATGAGACTTGTTGGTTGTATTAATTTGATTCTTAAGTGGACCTTACTTG 1260
Qy      1261  ATTAAATGCTTGGCAGAAAAGCTTTGAAGAACGACGAGAGACTGATCACTTTGGCCCTCA 1320
Db      1261  ATTAAATGCTTGGCAGAAAAGCTTTGAAGAACGACGAGAGACTGATCACTTTGGCCCTCA 1320
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RESULT 2
US-10-084-406-1
; Sequence 1, Application US/10084406
; Publication No. US20030054525A1
; GENERAL INFORMATION:
; APPLICANT: Schwiientek, Tilo
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglactosamine-alpha-R / (GLNAC
; FILE OF INVENTION: to Galnac) beta1,6-N-Acetylglucosaminelyltransferase, CGNT3
; FILE REFERENCE: 4503/1G031
; CURRENT APPLICATION NUMBER: US/10/084,406
; CURRENT FILING DATE: 2002-02-25
; PRIOR APPLICATION NUMBER: 09/645,192
; PRIOR FILING DATE: 2000-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1362
; TYPE: DNA
; ORGANISM: Human
US-10-084-406-1

Query Match      100.0%; Score 1362; DB 15; Length 1362;
Best local similarity 100.0%; Pred. No. 0;
Matches 1362; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      61      TTAACCCATAGGCGCTCCTCTTTGTTTAAAGCTTCTAATGTGAGAGACTCTTTCGGCAA 120
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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3435
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-793-998-10

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Best Local Similarity 100.0%; Pred No. 0;
Matches 1362; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 841 CTACCAATTAAGCAAAACATCTCCAGAGAGACCCCAATTAATCAATATTTGTT 900
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QY 1081 GATCTGCAGAGTAAAGCTGCGCTGTCAAGTGAATTAATGAAAGGCTTTTCTATCCC 1140
DB 1081 GATCTGCAGAGTAAAGCTGCGCTGTCAAGTGAATTAATGAAAGGCTTTTCTATCCC 1140
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DB 1261 ATTAAATGCTTGGCAAAAAGCTTGAAGAACAGAGAGACTGATTCATTTGGCCCTCA 1320
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DB 1321 GAAAGTATTTATGATAGAAATCTCACTACCAATCATGA 1362

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; RESULT 3
; US-09-793-998-10
; Sequence 10, Application US/09793998
; Patent No. US20020045202A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; APPLICANT: LEW, APRIL
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; FILE REFERENCE: GLYCO-16
; CURRENT APPLICATION NUMBER: US/09/793,998
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/185,702
; PRIORITY DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 11

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Qy 961 GTTCAAGACTTTTTCCTGATCTAAAGACATATCTCTGATAGACACTTTTGAGCT 1020  
Db 1822 GTTCAAGACTTTTTCCTGATCTAAAGACATATCTCTGATAGACACTTTTGAGCT 1881  
Qy 1021 ACCTGATGCGGCTTCCAGGATACCTGGGAGATTTCCAGATCCAGAGATGCT 1080  
Db 1882 ACCCTGATGCGGCTTCCAGGATACCTGGGAGATTTCCAGATCCAGAGATGCT 1941  
Qy 1081 GATCTGACAGATPAAGACTGCTTGTCAAGTGAATTAATTAAGAGCTTTTCTATCC 1140  
Db 1942 GATCTGACAGATPAAGACTGCTTGTCAAGTGAATTAATTAAGAGCTTTTCTATCC 2001  
Qy 1141 AGTTGATCTGATCTCACTTTCGAAAGCTGTATTTATGAGAGCTGCAATTAAGTGG 1200  
Db 2002 AGTTGATCTGATCTCACTTTCGAAAGCTGTATTTATGAGAGCTGCAATTAAGTGG 2061  
Qy 1201 CTATCAAGATGACATTTGTTGCTAATAATTTGATTTCTAAGGTGACCTTATCTTG 1260  
Db 2062 CTATCAAGATGACATTTGTTGCTAATAATTTGATTTCTAAGGTGACCTTATCTTG 2121  
Qy 1261 ATTTAAATGCTTGGCAGAAAGCTTGAAGACACGACAGAGACTGATCACTTTGCCCTCA 1320  
Db 2122 ATTTAAATGCTTGGCAGAAAGCTTGAAGACACGACAGAGACTGATCACTTTGCCCTCA 2181  
Qy 1321 GAAAGTTATTTATGATGAATCTCACTACCATCATGA 1362  
Db 2182 GAAAGTTATTTATGATGAATCTCACTACCATCATGA 2223

## RESULT 4

US-09-793-998-7 ; Sequence 7, Application US/09793998  
; Patent No. US20020045202A1  
; GENERAL INFORMATION:  
; APPLICANT: KORCZAK, BOZENA  
; APPLICANT: LEM, APRIL  
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE  
; FILE REFERENCE: GLYCO-16  
; CURRENT APPLICATION NUMBER: US/09/793,998  
; CURRENT FILING DATE: 2001-02-28  
; PRIOR FILING DATE: 2000-02-29  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 1368  
; TYPE: DNA  
; ORGANISM: Mus sp.  
US-09-793-998-7

Query Match 69.7%; Score 949; DB 5; Length 1368;  
Best Local Similarity 81.5%; Pred. No. 3,9e-261;  
Matches 1112; Conservative 0; Mismatches 250; Indels 3; Gaps 1;

Qy 1 ATGAAGATTTCAAGTATTTTAAACATACCTTACAGAGAAAGTTTCAATCCGTTT 60  
Db 1 ATGAAGATTTCAAGTATTTTAAATACATCTTCAAGAGAAATCTTTCACTCTCC 60  
Qy 61 TTAACCTATGCTGCTCTCTTTTAAAGCTTCTAATGTG--AGACACTCTTTTCG 117  
Db 61 TTAACCTATGCTGCTCTCTTTTAAAGCTTCTAATGTG--AGACACTCTTTTCG 120  
Qy 118 CAAAAGACATTTACTTGTGTAGTACCTCCCTAAGACCTGCTTTTGAAGAAACAGA 177  
Db 121 CAAAAGACATTTACTTGTGTAGTACCTCCCTAAGACATCACTTTTGTAGAAACAG 180  
Qy 178 TACACTATGTAAAGATGAAGTCAAGTAAAGATTAAGTTCGAGTATCTTAAGAACG 237  
Db 181 TTCCCGAGTCTGGGAGATGACGACGAGGACAAAGTAACTGCTCGGAGGCTTCAAGAGCAC 240

Qy 238 GACCTTTGGAAATTGGAAAGACTCTGAAATTAAGAAAGGACATCATTTGATCGAG 297  
Db 241 GACCTTTGGAAATCGGAAAGACTCTGAAATTAAGAAAGGACATCATTTGATCGAG 300  
Qy 298 GATGATGATGTTGTGCAATGACCAAGTATGTGACATTTATCAGACTTAAGAGTTAT 357  
Db 301 GAGGATGATGTTGTGCAATGACCAAGTATGTGACATTTATCAGACTTAAGAGGATAC 360  
Qy 358 GCTCAAAAGTTGTCTCAAAAGGAGAAAGCTTCCCAATAGCTTATCTTTGGTGTG 417  
Db 361 CATGAAAGCTGTTTCAAGGAGGAGAGACCTTCCCATAGCTTATTCGCTGTGTC 420  
Qy 418 CAAAAGATCAATTTAGTTGTAAGAAAGCTTATCATGATGATATACCAACAGACATATT 477  
Db 421 CAAAAGATCAATTTAGTTGAGCGTTGATCCAGATTTTACCAACAGACATATT 480  
Qy 478 TACTGATCCATTTATGATGTAAGGACCTGATACCTTCAAGTTGCCATGAACATTTA 537  
Db 481 TACTGATCCATTTATGATGTAAGGACCTGATACCTTCAAGTTGCCATGAACATTTA 540  
Qy 538 GCTAAGTCTTCCAAATTTTTCATTTGCTTCCAAATTAAGAGCTGTGATATGCCCCAC 597  
Db 541 GCTAAGTCTTCCCAATTTTTCATTTGCTTCCAAATTAAGAGCTGTGATGCTCAC 600  
Qy 598 ATTTCAAGCTCGAGCTGATTTAAATGCTGTGCGACCTTCTGAAGTCTTCAATCCAG 657  
Db 601 ATATCCAGGCTCCAGGCCCATGGAATGCTTATCAGACTTCTCAGACTTCCGTTCCAG 660  
Qy 658 TGGAAATATGTTATCAACTGTGTGGCAAGATTTTCCCTGAAGCAATTTGATGATG 717  
Db 661 TGGAAATATGTTATCAACTGTGTGGCAAGATTTTCCCTGAAGCAATTTGATGATG 720  
Qy 718 GTGTCAAGTGTGAAAAAATCAATGAGACAAATATGTGAGACGTTGAACCCCAAC 777  
Db 721 GTGTCAAGTGTGAAAAAATCAATGAGACAAATATGTGAGACGTTGAACCCCAAC 780  
Qy 778 AGTAAATGGAAGATTTCACTTACCATCATGAATTAAGACGAGTCTTATGAATATG 837  
Db 781 GCTAAGAGGAGGTTCACTTACCATCATGAATTAAGACGAGTCTTATGAATATG 840  
Qy 838 AAGTACCAATTAAGACAAATCTCCAAAGAGACACCCCTCATTAATCATGATATT 897  
Db 841 AAGTACCAATTAAGACAAATCTCCAAAGAGGACCCCTCATTAATCATGATATT 900  
Qy 898 GTTGGAGTGTCTTATTTGTTTAAAGTCAAGCATTTGTTAAATATTTTCAACATCC 957  
Db 901 GTTGGAGTGTCTTATTTGTTTAAAGTCAAGCATTTGTTAAATATTTTCAACATCC 960  
Qy 958 ATGTTCAAGACTTTTGTGCTGTGTTAAAGACATATCTCTGATGAGACATTTTG 1017  
Db 961 CTGTTGAAGCTTTTGTGCTGTGTTAAAGATATCATATTTCTCTGACAGACATTTTG 1020  
Qy 1018 GCTACCTTGAATGGGTTCCAGAAATCTGGGAGATTTCCAGATCAAGCCAGATG 1077  
Db 1021 GCTACCTTGAATGGGTTCCAGAAATCTGGGAGATTTCCAGATCAAGCCAGATG 1080  
Qy 1078 TCTGATCTGACAGATAGACTGCTGCTTCAAGTGAATTAATTAAGAGCTTTTCTAT 1137  
Db 1081 TCTGATCTGACAGATAGACTGCTGCTTCAAGTGAATTAATTAAGAGCTTTTCTAT 1140  
Qy 1138 CCCAGTTGATGATCTCACCTTTCAGAGCTGTGATTTATGAGACTGAGAAATTAAG 1197  
Db 1141 CCCAGTTGATGATCTCACCTTTCAGAGCTGTGATTTATGAGAGCTGAGAAATTAAG 1200  
Qy 1198 TGGCTTATCAAAAGTGAATGTTGTTGCTAATAATTTGATTTCTAAGGTGACCTATC 1257  
Db 1201 TGGCTTATCAAAAGTGAATGTTGTTGCTAATAATTTGATTTCTAAGGTGACCTATC 1260  
Qy 1258 TTGATTAATGCTTGGCAAAAGCTTGAAGACAGAGAGACTGATCACTTTGGCC 1317  
Db 1261 TTGATTAATGCTTGGCAAAAGCTTGAAGACAGAGAGACTGATCACTTTGGCC 1320  
Qy 1318 TCAGAAAATTTATTTATGATAGAAATCTCATACCATCATGA 1362



DB 1321 TCAGAGAGCTTCATGACAGAGGAAACCCCAAGCCACACATTA 1365

## RESULT 5

US-09-793-998-1  
; Sequence 1, Application US/09793998  
; Patent No. US20020045202A1  
; GENERAL INFORMATION:  
; APPLICANT: KORCZAK, BOZENA  
; APPLICANT: LEW, APRIL  
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE  
; FILE REFERENCE: GUYCO-16  
; CURRENT APPLICATION NUMBER: US/09/793,998  
; CURRENT FILING DATE: 2001-02-28  
; PRIOR FILING DATE: 2000-02-29  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 717  
; TYPE: DNA  
; ORGANISM: Unknown Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Unknown Sequence: DNA sequence of human or  
; OTHER INFORMATION: mouse core 2c  
; NAME/KEY: modified\_base  
; LOCATION: (177)  
; OTHER INFORMATION: a, t, c, g, other or unknown  
; NAME/KEY: modified\_base  
; LOCATION: (675)  
; OTHER INFORMATION: a, t, c, g, other or unknown  
US-09-793-998-1

Query Match Best Local Similarity 23.0%; Score 312.6; DB 9; Length 717;  
Matches 342; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 892 AATTTTGGGCAAGCTTATTTTGGTTTAACTCAAGCATTTGTTAAATATTTTCAAC 951  
DB 1 AATTTTGGGCAAGCTTATTTTGGTTTAACTCAAGCATTTGTTAAATATTTTCAAC 60  
QY 952 AACTCAGTGCACAACTTTTGGCTGCTAAAGACATCTCCCTGATAGAC 1011  
DB 61 AACTCAGTGCACAACTTTTGGCTGCTAAAGACATCTCCCTGATAGAC 120  
QY 1012 TTTGGGCTACCTTGAATCGGTTCCAGGATACCTGGGAGATTTCCAGATCAGCCAG 1071  
DB 121 TTTGGGCTACCTTGAATCGGTTCCAGGATACCTGGGAGATTTCCAGATCAGCCAG 180  
QY 1072 GATGCTCTGATCTGAGAGTAAGACTCGCTTGTCAATGATTAATTAAGGCTTT 1131  
DB 181 GATGCTCTGATCTGAGAGTAAGACTCGCTTGTCAATGATTAATTAAGGCTTT 240  
QY 1132 TTCTATCCAGTGTACTGATCTCACTTCCAAAGGCTGTATTATTAAGAGCTGCAAA 1191  
DB 241 TTCTATCCAGTGTACTGATCTCACTTCCAAAGGCTGTATTATTAAGAGGCTGCGGAC 300  
QY 1192 TTAAGTGGCTTATCAAAAGTGAATTTGTTGCTTAATTAATTTGATTTCAAGTGAAC 1251  
DB 301 TTAAGTGGCTTATCAAAAGTGAATTTGTTGCTTAATTAATTTGATTTCAAGTGAAT 360  
QY 1252 CCTATCTGATTAATGCTTGGAGAAAGCT 1283  
DB 361 GAAATGCTCTTCAAGTCTTAGAGATTAAGCT 392

RESULT 6  
US-09-797-207-12  
; Sequence 12, Application US/09797207  
; Patent No. US2002009563A1  
; GENERAL INFORMATION:

APPLICANT: KORCZAK, BOZENA  
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE  
; FILE REFERENCE: GUYCO-7P1  
; CURRENT APPLICATION NUMBER: US/09/797,207  
; CURRENT FILING DATE: 2001-03-02  
; EARLIER APPLICATION NUMBER: 09/495,913  
; EARLIER FILING DATE: 2000-02-02  
; EARLIER APPLICATION NUMBER: 60/118,674  
; EARLIER FILING DATE: 1999-02-03  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 12  
; LENGTH: 1221  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Recombinant  
; OTHER INFORMATION: DNA  
US-09-797-207-12

Query Match Best Local Similarity 14.1%; Score 191.8; DB 9; Length 1221;  
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACCACTGATGTGACATTATCAAGCTCTAAAGAGTTATGCTCAAAAGCTTGTCTCA 376  
DB 221 TCACCAAGAGCTGTGACACTTCAAGGCTGAAAGAGTTCAATACAGTTCCCACTAGCA 280  
QY 377 AGGAGAGAAAGCTTCCCAATAGCCTATTTGGTTGCTGCAAGAGATTAATAG 436  
DB 281 AAGAGAGGTGAGATTCCTATTCATCTATGAGTATGAGTATCAAGAGATTAATAG 340  
QY 437 TTGAAGGCTTATCAATGCTATATACACACAGACAAATTTATCTGATCACTATATGATC 496  
DB 341 TTGAAGGCTTATCAATGCTATATACACACAGACAAATTTATCTGATCACTATATGATC 400  
QY 497 GTAAGGACCTGATCTTAAAGTTGCAATGACATGAACATTTAGTAGTGTCTTCCAAAT 556  
DB 401 AGAAGTCCCAAGAACTTCAAGAGGCTGCAAGCAATTAATTTCTGCTCCAAATG 460  
QY 557 TTTTCAATGCTTCAATTAAGAGGCTGTGAAATATGCCACATTTCCAGACTCAGGCTG 616  
DB 461 TCTTCAATGAGCAATTAAGAGGCTGTGAAATATGCCACATTTCCAGACTCAGGCTG 520  
QY 617 ATTTAAATGCTTGTGAGACCTTCTGAAGTCTTCAATCCAGTGAATATGTTATCAACT 676  
DB 521 AACTCACTGATGAGAAAGCTTGTCTCAGAGCTCAGTGCCTGGAATATCTTCTGAAAT 580  
QY 677 TGTGTGGGCAAGATTTTCCCTGAGATCAATTTTAATTTGGTGTGAGATTAATTAAC 736  
DB 581 CATGTGGAGGACCTTCTCATTAAGAGCAATGAGATGATGCTCAGGCTCTCAAGATG 640  
QY 737 TCAATGAGCAAAATATGTTGAGAGCGGTGAACCCCAACCAATTAATGGAAGATTC 796  
DB 641 TGAATGAGAGAAATAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAG 700  
QY 797 CTTAACATATGAACTTAAAGCGGCTGCTATGATTAATGAAAGTAACTAACAAATAGACA 856  
DB 701 AATATCACTTGAAGTATGAGAGACATTAAC-----CTAACCA 742  
QY 857 ACATCTCAGAGAGAGACCCCTCCATTAACATTCAGATTAATTTGTCAGAGCTTAATTTG 916  
DB 743 ACAAGAGAGAGATTCCTCCCTTAATTAATTAATTAATTAATTAATTAATTAATTAAT 802  
QY 917 TTTTAAGTCAAGATTTGTTAAATATTTTCAACAACCTCAAGCTTCAAGATTTTGG 976  
DB 803 TGGCTTCCGAGATTTGCTCAACATGTTTGAAGAACCTTAATCCCAACATCAATG 862  
QY 977 CTTGCTTAAAGACATATCTCTGATGAGACATTTGGGCTACCTTGATTTGGGCTTC 1036  
DB 863 AATGGTAAAGACATTAATAGCCAGATGAACATCTTGGGCTACCTTGATTTGGGCTTC 922

Qy	1037	CAGGAATACCTGGGGAGATTCCAAATCAGCCAGAGATG---TGCTGATCTGCAGAGTA	1092
Db	923	GGTGAATCCTGGCTCTGTCTGTCCCAACCAACCBAATGACATCTCAACATGACTTCTA	982
Qy	1094	AGACTGCGCTTGTCAAGTGAATTACTATGAAGGCTTTTCTATCCCACT-----	1143
Db	983	TTGCCAGGCTGGTCAAGTGGCAGGGGTCAAGAGGAGACATCATTAAGGCTGCTCCTTATG	1044
Qy	1144	-----TGTACTGGATCTACCTTCGAAAGGCTGATATTATGAGCTGCAGATTAAGGT	1198
Db	1043	CTCCCTGCTCTGGAAATCCACCAAGGGGCTATCTGCTTTATGAGGCTGGGACTTGAATT	1102
Qy	1159	GGCCTTATCAAAAGATGACATTGGTTGCTAATTAATTTGATTCTTAAGTGAACCTATCT	1258
Db	1103	GGATGCTTCAAAACCATCATCCTGTGTGGCCACAAATTTGACCCCAAGGTAGATGATATATG	1162
Qy	1259	TGATTAATAGCTTGGCAGAAAAGCT	1283
Db	1163	CTCTTCAGTCTTGAAGATACCT	1187

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RESULT 7
US-09-797-207-1
; Sequence 1, Application US/09797207
; Patent No. US20020098563A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; TITLE OF INVENTION: GENE
; FILE REFERENCE: GLYCO-7P1
; CURRENT APPLICATION NUMBER: US/09/797,207
; CURRENT FILING DATE: 2001-03-02
; EARLIER APPLICATION NUMBER: 09/495,913
; EARLIER FILING DATE: 2000-02-02
; EARLIER APPLICATION NUMBER: 60/118,674
; EARLIER FILING DATE: 1998-02-03
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 1
; LENGTH: 1317
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Recombinant
; OTHER INFORMATION: DNA
; US-09-797-207-1

```

Query Match	14.1%;	Score 191.8;	DB 9;	length 1317;
Best Local Similarity	52.5%;	Pred. No. 5.6e-44;		
Matches 517;	Conservative	0;	Mismatches 452;	Indels 36;
				Gaps 3;

[illegible]

Dc		617	ACCTCACTGGATGGAAGACTTGCGTCCAGAGCTCAGGCCGTGGAAATACTCCTCGAATA	676
Gy		677	TGTSGTGGGCAGAATTTCCTCCCTGAAGCCAATTTTGAATTTGGTGTGAGAGTTGAAAAAC	736
Dd		677	CATGTGGAGCGGACTTTTCTCTATTAAGAGCATGTAGAGATGTGTCCAGGCTCTCAAGATGT	736
Gy		737	TCAAATGAGCAAAATATGTGTGGAGCGGTGAACCCTCCCAAACAGTAATTGGAAAAGATTCA	796
Dd		737	TGAATGGGAGGAATANGCATGAGAGTCAGAGGTACTCTTAAGCACAAAGAAAACCCGCTGGA	796
Gy		797	CTTACCATCATGAACCTTAGACGGGTGCTTATGTAATTTGTAAGCTAACATAAGACA	856
Dd		797	AATATCACTTTGAGAGTGTAGAGACACATTAAC-----CTAACCA	838
Gy		857	ACATCTCCAGAGGAAGCACCCCCCATTAACATCAGATATTGTGTGCGAGCTTATTTTG	916
Dd		839	ACAAAGAAAGAGATCTCCCCCCTTAAATTAATTACTATGTATTCAGGSAATGCGTACATGT	898
Gy		917	TTTTAGTCAGACATTTGTTAAATATATTTTCAACAATCAGATGTTCAAGACTTTTTTG	976
Dd		899	TGGCTTCCCGAGATTTGCTCCACATGTTTGAAGAACCTTAATCCCAACACTGATTG	958
Gy		977	CTGTGCTTAAAGACACADACTCTCTGCTGATAGACCTTTGGGCACTTGATTTGGGATTC	1036
Dd		959	AATGGGTMAAAGACACTTATAGCCCAATGAACACTCTGTGGCCACCCCTTCAGGTGCAC	1018
Gy		1037	CAGGAATACCTGGSGAGATTTCCAGATCAAGCCAGATG---TGTCTGATCTGCAGAGTA	1093
Dd		1019	GGTGGATGCGCTGCTGTTCTGTTCCCAACCAACCCCAAGTACGACATCTCAGACATGTCTTA	1078
Gy		1094	AGACTGCGCTGTCAAGTGAATPACTAGTAGAGGCTTTTCTATCCAGT-----	1143
Dd		1079	TTTGCAAGGCTGTCTAAATGCGAGGCTATAGAGAGACATCGAATAAAGGTGCTCCTATG	1138
Gy		1144	----TGTACTGATCTCAGCTTTGGAAGCGTGTGTATTATGAGCTGCGAATTTAAGST	1198
Dd		1139	CTCCCTGCTCGGATCCACACGAGGCTATCTGCGTTATGGGGCTGGGGACTTGAAAT	1198
Gy		1199	GGCTTATCAAGATGAGCATGTGTTGCTATAAATTTGATTTCTMAAGTGGACCCCTATCT	1258
Dd		1199	GGAGTCTTCAAAACATCACTGTGTGGCCAAACAAGTTTGACCCAAAGSTAGATGATATG	1258
Gy		1259	TGATTAATAGCTTGGCAGAAAAGCT	1283
Dd		1259	CTCTTCAGTGTGTAGAAAGATACCT	1283

RESULT 8  
US-10-388-307-14  
; Sequence 14, Application US/10388307  
; Publication No. US20030180778A1

```

1      APPLICANT: Schwiientek, Tilo
2      APPLICANT: Clausen, Henrik
3      TITLE OF INVENTION: UPD-N-Acetylglucosamine:
4      TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglactosamine-alpha-R / (Glc
5      TITLE OF INVENTION: to GalNAc) beta1,6-N-Acetylglucosaminetyltransferase, C2
6      FILE REFERENCE: 4503/1G031
7      CURRENT APPLICATION NUMBER: US/10/388,307
8      CURRENT FILING DATE: 2003-03-13
9      PRIOR APPLICATION NUMBER: US/09/645,192
10     PRIOR FILING DATE: 2000-08-24
11     PRIOR APPLICATION NUMBER: US 60/150,468
12     PRIOR FILING DATE: 1999-08-24
13     NUMBER OF SEQ ID NOS: 17
14     SOFTWARE: FastSeq for Windows Version 3.0
15     SEQ ID NO 14
16     LENGTH: 1317
17     TYPE: DNA
18     ORGANISM: Human
19     US-10-388-307-14
20
21     Query Match      14.1%, Score 191.8, DB 13, Length 1317,

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Best Local Similarity 52.5%; Pred. No. 5.6e-44;  
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACAGTGTGATGATTTATCAGACTCTAAGAGGTATGCTCAAAAGCTTGCTCA 376  
Db 317 TCACAGAGCTGTGAGACTTCAAGCTGMAAGAGGTATGATGCTTCCAGCTGAGCA 376  
QY 377 AGAGAGAGAAAGCTTCCCAATGCTTCTTGTGTTCCCAAGAGTCAATATG 436  
Db 377 AAGAGAGGTGAGGTTCCTATGCTATGCTATGCTATGCTATGCTATGCTATG 436  
QY 437 TGAAGAGCTTATCATGCTATGATATGACAGACATATTTACTGATCATATGATG 496  
Db 437 TTGAAGAGCTATGCTGAGCTGTGTATGCTTCCAGAGCATATGCTGTGCTATG 496  
QY 497 GTAAGGACCTGATACCTTCAAGAGTGCATGAGCAATTTAGCTAAGCTTCCATA 556  
Db 497 AGAAGTCCCGAGAACTTCAAGAGGCGTCAAGCAATTTATTTCTTCCCAATG 556  
QY 557 TTTTATGCTTCCAAATTGAGGCTGTGATATGCTTCCAGACTCCAGGCTG 616  
Db 557 TCTTCATAGCCAGTAACTGCTGTGCTGTGCTTATGCTTCTGCTCAGGCTGCAAGCTG 616  
QY 617 ATTAAATGCTGTGCGACCTTCTGAAGCTTCAATCCAGTGAATAATGTTATCACT 676  
Db 617 ACCTCACTGATGAGAGACTGTGCTCAGAGCTCAGTCCGCTGAATATCTTCTGAATA 676  
QY 677 TGTGTGGGCAAGATTTTCCCTGAGTCAATTTGATTTGCTGAGTGAAGAAAC 736  
Db 677 CATGTGGAGCGAGCTTCTTAATAAGAGCATGAGATGCTCCAGGCTTCAAGATGT 736  
QY 737 TCAATGAGCAAAATATGTTGAGAGCGGTGAACCCCAACAGTAAATGGAAGATCA 796  
Db 737 TGAATGGAGAAATAGATGAGAGTCAAGAGTACCTCTTAAGCAGAAAGAACCCGCTGA 796  
QY 797 CTTAACCTCATGAACTTAGAGGGTGTCTTATGATATGTAAGCTAACATAGAGCA 856  
Db 797 AATATCACTTGAAGTGTGAGAGACATTAAC-----CTAACCA 838  
QY 857 ACATCTCAAGAGAGCAACCCCATTAACATTAATTTGTTGGAGTCTTATTTTG 916  
Db 839 ACAAGAGAGAGAGCTTCCCTCTTAATTAATTAATTAATTAATTAATTAATTAAT 898  
QY 917 TTTTAAGTCAAGCTTGTATTAATATATTTTCAACAATCTCATGCTTCAAGCTTTTG 976  
Db 899 TGGCTTCCGAGATTTGCTCAACATGTTTGAAGAACCTTAATCCCAACAACTGATTG 958  
QY 977 CCGTCTCAAGACACATCTCTCTGATGAGCACTTTTGGGCTACCTTATCGGAGTTC 1036  
Db 959 AATGGTAAAGAGACTTATAGCCAGATGAAACCTCTGGGCACTTCAAGCTGAC 1018  
QY 1037 CAGGAATACCTGGGAGATTTCCAGATGAGCCAGATG--TGTCTGATCTGAGATG 1093  
Db 1019 GGTGATGCTGCTGCTGCTTCCCAACCAACCAAGTGAAGATCTCAGACATGACTTCA 1078  
QY 1094 AGATGCGCTTGTGAAGTGAATTAATGAGGCTTTTCTATCCAGT-----1143  
Db 1079 TTGCGAGCTGTGATGAGAGGAGGTCAATGAGAGACATGATAGGAGTCTCTTATG 1138  
QY 1144 -----TGTACTGATCTCACTTCCAGAGCTGTGTATTTATGAGCTGCAAGATTAAGT 1198  
Db 1139 CTCCTGCTGTGATCCACAGAGGAGTATCTGCTTATGAGGAGCTGAGGAGCTGAT 1198  
QY 1199 GGTCTTCAAGAGAGAGCTTGTGCTTAAATTTGATTTCAAGAGTGAAGCCATATC 1258  
Db 1199 GGAATGCTTCAAGAGAGAGCTTGTGCTTAAATTTGATTTGATTTGATTTGATTTG 1258  
QY 1259 TGAATTAATGCTTGGAGAGAGAGCT 1283  
Db 1259 CTCTTCAAGTGTGATGAAGATTAACCT 1283

RESULT 9

US-10-084-406-14  
; Sequence 14, Application US/10084406  
; Publication No. US20030054525A1  
; GENERAL INFORMATION:  
; APPLICANT: Schuylentek, Tilo  
; APPLICANT: Clausen, Henrik  
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:  
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-1-transferase, C2GNT3  
; FILE REFERENCE: 4503/1G031  
; CURRENT APPLICATION NUMBER: US/10/084,406  
; PRIOR FILING DATE: 2002-02-25  
; PRIOR APPLICATION NUMBER: 09/645,192  
; NUMBER OF SEQ ID NOS: 17  
; SOURCE: FastSeq for Windows Version 3.0  
; SEQ ID NO 14  
; LENGTH: 1317  
; TYPE: DNA  
; ORGANISM: Human  
US-10-084-406-14

Query Match 14.1%; Score 191.8; DB 15; Length 1317;  
Best Local Similarity 52.5%; Pred. No. 5.6e-44;  
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACAGTGTGATGATTTATCAGACTCTAAGAGGTATGCTCAAAAGCTTGCTCA 376  
Db 317 TCACAGAGCTGTGAGACTTCAAGCTGMAAGAGGTATGATGCTTCCAGCTGAGCA 376  
QY 377 AGAGAGAGAAAGCTTCCCAATGCTTCTTGTGTTCCCAAGAGTCAATATG 436  
Db 377 AAGAGAGGTGAGGTTCCTATGCTATGCTATGCTATGCTATGCTATGCTATG 436  
QY 437 TGAAGAGCTTATCATGCTATGATATGACAGACATATTTACTGATCATATGATC 496  
Db 437 TTGAAGAGCTATGCTGAGCTGTGTATGCTTCCAGAGCATATGCTGTGCTATG 496  
QY 497 GTAAGGACCTGATACCTTCAAGAGTGCATGAGCAATTTAGCTAAGCTTCCATA 556  
Db 497 AGAAGTCCCGAGAACTTCAAGAGGCGTCAAGCAATTTATTTCTTCCCAATG 556  
QY 557 TTTTATGCTTCCAAATTGAGGCTGTGATATGCTTCCAGACTCCAGGCTG 616  
Db 557 TCTTATAGCCAGTAACTGCTGTGCTGTGCTTATGCTTCTGCTCAGGCTGCAAGCTG 616  
QY 617 ATTAAATGCTGTGCGACCTTCTGAAGCTTCAATCCAGTGAATAATGTTATCACT 676  
Db 617 ACCTCACTGATGAGAGACTTGTCTCCAGAGCTCAGTCCGCTGAATAATCTCTGAATA 676  
QY 677 TGTGTGGGCAAGATTTTCCCTGAGAGTCAATTTTGAATGCTGAGTGAAGAAAC 736  
Db 677 CATGTGGAGCGAGCTTCTTAATAAGAGCAATGAGATGCTTCAAGCTTCAAGATGT 736  
QY 737 TCAATGAGCAAAATATGTTGAGAGCGGTGAACCCCAACAGTAAATGGAAGATTC 796  
Db 737 TGAATGGAGAAATAGATGAGAGTCAAGAGTACCTCTTAAGCAGAAAGAACCCGCTGA 796  
QY 797 CTTAACCTCATGAACTTAGAGGGTGTCTTATGATATGTAAGTACCAATAGAGCA 856  
Db 797 AATATCACTTGAAGTGTGAGAGACATTAAC-----CTAACCA 838  
QY 857 ACATCTCAAGAGAGCAACCCCATTAACATTAATTTTGGAGCTTATTTTG 916  
Db 839 ACAAGAGAGAGAGCTTCCCTCTTAATTAATTAATTAATTAATTAATTAATTAAT 898  
QY 917 TTTTAAGTCAAGCTTGTATTAATATATTTTCAACAATCTCATGCTTAAAGCTTTTG 976  
Db 899 TGGCTTCCGAGATTTGCTCAACATGTTTGAAGAACCTTAATCCCAACAACTGATTG 958  
QY 977 CCGTCTCAAGACACATCTCTCTGATGAGCACTTTTGGGCTACCTTGAATGCGGCTTC 1036  
Db 959 AATGGTAAAGAGACTTATAGCCAGATGAAACCTCTGGGCACTTCAAGGCTGAC 1018

QY 1037 CAGGAATACCTGGGAGATTTCCAGATCAGCCAGATG---TGTCTGATCTGCAGAGTA 1093  
DB 1019 GGTGGATGCTGTGCTGTCTGTTCCAGACCCCAAGTACAGACATCTGACATCTTCTA 1078  
QY 1094 AGACTGCTCTGCTCAAGTGTGAATTAATGAGGCTTTTCTATCCCACT----- 1143  
DB 1079 TTGCGAGGCTGTGCAGATGTGCAGAGTCAATGAGGAGACATGATTAAGGCTGCTTATG 1138  
QY 1144 -----TGTACTGATCTCACCCTTGAAGCTGTGTATTATGAGAGCTGCAGATTAAGT 1198  
DB 1139 CTCCCTGCTGTGATTCACACAGGCTATCTGCTTATGAGGCTGTGGGACTTGAATT 1198  
QY 1199 GGGTATCAAGATGAGCATTTGTTTGTCTATATTAATTGATTTAGAGTGAACCTATCT 1258  
DB 1199 GGATGCTTCAAAACCATCACCCTGTGGCCAAAGTTTACCCAAAGTATGATGATATG 1258  
QY 1259 TGATTAATGCTTGGCAGAAAGCT 1283  
DB 1259 CTCTCAGTCTTAGAAGATACCT 1283

## RESULT 10

US-09-797-207-3  
Sequence 3, Application US/09797207  
Patent No. US20020098563A1  
GENERAL INFORMATION:  
APPLICANT: KOSCIUSKO, BOZENA  
TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE  
FILE REFERENCE: GLYCO-7P1  
CURRENT APPLICATION NUMBER: US/09/797,207  
CURRENT FILING DATE: 2001-03-02  
EARLIER APPLICATION NUMBER: 09/495,913  
EARLIER FILING DATE: 2000-02-02  
EARLIER APPLICATION NUMBER: 60/118,674  
EARLIER FILING DATE: 1999-02-03  
NUMBER OF SEQ ID NOS: 20  
SOFTWARE: Patent Ver. 2.1  
SEQ ID NO 3  
LENGTH: 2108  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURES:  
OTHER INFORMATION: Description of Artificial Sequence: Recombinant  
OTHER INFORMATION: DNA  
US-09-797-207-3

Query Match 14.1%; Score 191.8; DB 9; Length 2108;  
Best Local Similarity 52.5%; Pred. No. 7.4e-44;  
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;  
QY 317 TGACCAATGATTTGACATTTATACAGCTCTAAGAGTTATGCTCAAAAGCTTGTCTCA 376  
DB 584 TCACCAAGACTGTGACACTTCAAGGCTAAGAGAAAGTTCATACAGTTCCCACTAGCA 643  
QY 377 AGAGAGAAAGAGCTTCCCAATAGCCCTATCTTTGTTGTCACAAAGATGCAATATAG 436  
DB 644 AAGAGAGGTGAGAGTTCCCTATGCACTATGATGATGATGAGAGATGAGAACT 703  
QY 437 TTGAAAGCTTATCAATGCTATATACACAGCACAATATTTACTGCTCATTAATGATC 496  
DB 704 TTGAAAGCTTATGCGAGCTGTGTATGCCCTCAGAAATATCTGTGCTCATGTGATG 763  
QY 497 GTAAGCACTGATACCTTCAAAAGTTGCCATGAAATTTAGCTAAGTCTTCCATTA 556  
DB 764 AGAAGTCCCAAGAACTTTCAAGAGGCGGTCAAGCAATATTTCTGCTTCCCAATG 823  
QY 557 TTTTCATTTGCTTCAAAATTAAGGCTGTGATATGCGCCACATTTCCAGACTCCAGCTG 616  
DB 824 TCTTCATAGCCAGTATGAGTGTGCTGAGTGTATGCTCTGCTCAGGAGTGCAGAGCTG 883  
QY 617 ATTAAATTTGCTGTGAGACTTCTGAAGTCTTCAATCAGTGAATAATATGTTATCACT 676

DB 884 ACTCAACTGATGAAAGCTTGTCTCCAGAGCTGAGTGGCGTGAATATCTTCTCTGATA 943  
QY 677 TGTGTGGCAGAGATTTTCCCTGAAGTCAAAATTTGATTTGTGTGAGCTTGAAGAAAC 736  
DB 944 CATGTGGAGCGACTTTCTATTAAGAGCAATGAGATGATGTCAAGCTCTCAAGATG 1003  
QY 737 TCAATGAGCAAAATTTGTGAGACGCTGAACCCCAACAGTAATTTGAGAAAGATCA 736  
DB 1004 TGAATGGAGGAATAGCATGAGTCAAGATCTCTTAAGCAAGAGAAACCCGCTGGA 1063  
QY 797 CTTCACATCAATGAATTAAGCGGCTGCTTATGATATATGTAAGCTACCAATAGAGCAA 856  
DB 1064 AATATCACTTTGAGATGTGAGAGACATTAAC-----CTAACCA 1105  
QY 857 ACATCTCCAGAGAGCAACCCCATATACATGAGATTTTGTGGAGTCTTATTTTG 916  
DB 1106 ACAAGAGAGAGATCTCCCTTATTAATTAATTAATTAATTAATTAATTAATTAATTA 1165  
QY 917 TTTTAAGTCAAGCATTTGTTAATATATATTTTCAACAACCTCATGCTTCAAGACTTTT 976  
DB 1166 TGGCTTCCCGAGATTTGTGCAACATTTTGAAGAACCTTAATCCCAACATGATG 1225  
QY 977 CCTGCTTAAGACACATATCTCTCTGATGAGCATTTTGGCTACTTGAATTCGCTTC 1036  
DB 1226 AATGGTAAAGACATTAATAGCCAGATGAAACCTCTGCGCCACCTTCAAGCTGAC 1285  
QY 1037 CAGGAATACCTGGGAGATTTCCAGATCAGCCAGATG---TGTCTGATCTGCAGAGTA 1093  
DB 1286 GGTGATGCTGCTGCTGTCTGTTCCCAACCAAGTACAGATCTGAGATGATCTCTA 1345  
QY 1094 AGACTGCTTGTCAAGTGAATTAATTAAGGCTTTTCTATCCAGT----- 1143  
DB 1346 TTGCGAGGCTGTCAAGTGGAGGCTCATGAGGAGACATGATTAAGGCTGCTCTATG 1405  
QY 1144 -----TGTACTGATCTCAACCTTGAAGCGGTGATTTTGTGAGCTGCAAAATTAAGT 1198  
DB 1406 CTCCCTGCTGTGATCAACAGGCGGCTATCTGCTTTATGGGCTGGGAGCTTGAAT 1465  
QY 1199 GGGTATCAAGATGACATTTGTTCTAATAATTTGATTTTAAAGTGAACCTTATCT 1258  
DB 1466 GGATGCTTCAAAACCATCACTGTGGCCAAAGTTGACCCAAAGTATGATGATATG 1525  
QY 1259 TGATTAATGCTTGGCAGAAAGCT 1283  
DB 1526 CTCTCAGTCTTAGAAGATACCT 1550

## RESULT 11

US-09-981-353-43  
Sequence 43, Application US/09981353  
Patent No. US20020160382A1  
GENERAL INFORMATION:  
APPLICANT: Lasek, Amy W.  
TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
FILE REFERENCE: PA-0038 US  
CURRENT APPLICATION NUMBER: US/09/981,353  
CURRENT FILING DATE: 2001-10-11  
NUMBER OF SEQ ID NOS: 194  
SOFTWARE: PERL Program  
SEQ ID NO 43  
LENGTH: 2147  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURES:  
NAME/KEY: misc feature  
OTHER INFORMATION: Incyte ID No. US20020160382A1 2921009CBI  
US-09-981-353-43

Query Match 14.1%; Score 191.8; DB 10; Length 2147;  
Best Local Similarity 52.5%; Pred. No. 7.5e-44;  
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACGAGTATTGTGACATTATACAGACTCTAAGAGTTATGCTCAAAAGCTTGCTCA 376  
 DB 683 TCACCGAGACTGTGAGCACTTCAAGGCTGAAGAGAGTTCATACAGTCCCACTGACGA 742  
 QY 377 AGAGAGAGAAAGCTCCCAATAGACCTATCTTGGTGTGCAAAAGATGCAATATAG 436  
 DB 743 AAGAAAGGTGAGATTCCCTATGCACTCTATGTGATTAAGAAAGATGAAACT 802  
 QY 437 TTGAAAAGCTTATCATGCTATATACACCAACAATTTACTGATCCATTATGATC 496  
 DB 803 TTGAAAAGCTTACTGACAGCTGTGATGCCCCCTCAGAACATATACGTGCTCATGTGATG 862  
 QY 497 GTAAAGCACTGATATACCTTCAAAAGTGCATGAACAATTACTAGAGCTTCCCAATA 556  
 DB 863 AAGATGCCCAAGAACTTTCAAAGAGGCGGTCAAGCAATTTTCTTGCTTCCCAATG 922  
 QY 557 TTTTCATTGCTTCCAAATTAGAAGGCTGTGAAATATGCCCAATTCCAGACTCCAGGCTG 616  
 DB 923 TCTTCATAGCCAGTAAAGTGTGTTCCGGGTGTTATGCTCCTGATCCAGGGTGAAGCTG 982  
 QY 617 ATTAAATGCTTGTGAGACCTTCTGAACTCTCAATCCAGTGAATATGTTATCACT 676  
 DB 983 AACTCACTGACATGAGAAAGCTGTCTCAGAGCTCAGTGCCTGTGAAATATCTCTGATTA 1042  
 QY 677 TGTGTGGCAAGATTTTCCCTGAAGTCAAAATTTGAAATGCTCAGAGTTGAAAAAC 736  
 DB 1043 CATGTGGAGAGGACTTCTCTATTAAGAGCAATGCAAGATGTCCAGGCTCTCAAGATGT 1102  
 QY 737 TCATAGAGCAAAATATGTTGAGACGCTGAAACCCCAACAGTAAATTTGAAAATTTCA 796  
 DB 1103 TGAATGGAGAAATACATGAGATGAGTCAAGAGTACCTCTTAAGCAAAAGAACCCCTGGA 1162  
 QY 797 CTACCATCATGAACTTGAACGGGCTCTTATGAATATGTAAGTACCAATAAGAGAA 856  
 DB 1163 AATATACCTTTGAGGTAGTGAAGAGACATTTAC-----CTAACCA 1204  
 QY 857 ACATCTCCAAAGAGAACCCCCCATACATTCAATATTTGTCAGAGTCTTATTTTG 916  
 DB 1205 ACAAGAAAGAGATCTCCCTCTTATTAATTTAACTATGTTACAGGGAATGTGTCATTTG 1264  
 QY 917 TTTTAGTCAAGATTTGTTAAATATATTTTCAACAACCTCCATGCTCAAGCTTTTGG 976  
 DB 1265 TGGCTTCCGAGATTTGTCGCAACATGTTTGAAGAACCTTAATCCCAACTGATTTG 1324  
 QY 977 CCTGTCTAAAGACACATACTCTCTGATGAGCACTTTGGGCTACCTTGATTTGGGTTT 1036  
 DB 1325 AATGGGTAAAGACATTTATAGCCCAATGAACACCTCTGGGCAACCTTTCAGCGTGAC 1384  
 QY 1037 CAGGAATACCTGGGAGATTTCCAGATCAAGCCCAAGATG---TGTCTGATCTGCAAGATA 1093  
 DB 1385 GGTGATGCTGTGCTCTGTTCCCAACACCCCAAGTACACATCTCAGATGACTTTCTA 1444  
 QY 1094 AGACTGCGCTTGTCAAGTGAATTAATTAAGAGCTTTTCTATCCCACT----- 1143  
 DB 1445 TTGCGAGGCTGTCAAGTGAAGGCTCATGAGGAGACATCAATTAAGGCTGCTTATG 1504  
 QY 1144 -----TGACTGATCTCACTCTGCAAGCTGTGATTTTATGAGCTGCAAGATTAAGGT 1198  
 DB 1505 CTCCTGCTCTGGAATTCACACGCGGCTATCTGCTTATGAGGCTGGGGACTTGAAAT 1564  
 QY 1199 GAGCTTAAAGATGAGCAATGTTGTTGCTAATTAATTTGATTTCTAAGGTGAGCCCTATCT 1258  
 DB 1565 GGAATGCTCAAAACATCACTGTTGGCCCAACAAGTTTGAACCCAAAGGTATGATTAATG 1624  
 QY 1259 TGAATTAATGCTTGCAAGAAAGCT 1283  
 DB 1625 CTCCTCAGTGTAGAAAGATTAATCT 1649

RESULT 12  
 US-09-925-297-337  
 ; Sequence 337, Application US/09925297

; Patent No. US20020081559A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
 ; FILE REFERENCE: PA105  
 ; CURRENT APPLICATION NUMBER: US/09/925,297  
 ; PRIORITY FILING DATE: 2001-08-10  
 ; PRIOR APPLICATION NUMBER: PCT/US00/05989  
 ; PRIOR FILING DATE: 2000-03-08  
 ; PRIOR APPLICATION NUMBER: 60/124,270  
 ; NUMBER OF SEQ ID NOS: 928  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 337  
 ; LENGTH: 2229  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; LOCATION: (2208)  
 ; OTHER INFORMATION: n equals a,t,g, or c  
 ; NAME/KEY: misc feature  
 ; LOCATION: (2216)  
 ; OTHER INFORMATION: n equals a,t,g, or c  
 ; US-09-925-297-337

Query Match 14.1%; Score 191.8; DB 9; Length 2229;  
 Best Local Similarity 52.5%; Pred. No. 7.7e-44;  
 Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACGAGTATTGTGACATTATACAGACTCTAAGAGTTATGCTCAAAAGCTTGCTCA 376  
 DB 743 TCACCGAGACTGTGAGCACTTCAAGGCTGAAGAGAGTTCATACAGTCCCACTGACGA 802  
 QY 377 AGAGAGAGAAAGCTCCCAATAGACCTATCTTGGTGTGCAAAAGATGCAATATAG 436  
 DB 803 AAGAAAGGTGAGATTCCCTATGCACTCTATGTGATTAAGAAAGATGAAACT 862  
 QY 437 TTGAAAAGCTTATCATGCTATATACACCAACAATTTACTGATCCATTATGATC 496  
 DB 803 TTGAAAAGCTTACTGACAGCTGTGATGCCCCCTCAGAACATATACGTGCTCATGTGATG 862  
 QY 497 GTAAAGCACTGATATACCTTCAAAAGTGCATGAACAATTACTAGAGCTTCCCAATA 556  
 DB 863 AAGATGCCCAAGAACTTTCAAAGAGGCGGTCAAGCAATTTTCTTGCTTCCCAATG 922  
 QY 557 TTTTCATTGCTTCCAAATTAGAAGGCTGTGAAATATGCCCAATTCCAGACTCCAGGCTG 616  
 DB 923 TCTTCATAGCCAGTAAAGTGTGTTCCGGGTGTTATGCTCCTGATCCAGGGTGAAGCTG 982  
 QY 617 ATTAAATGCTTGTGAGACCTTCTGAACTCTCAATCCAGTGAATATGTTATCACT 676  
 DB 1043 AACTCACTGACATGAGAAAGCTGTCTCAGAGCTCAGTGCCTGTGAAATATCTCTGATTA 1102  
 QY 677 TGTGTGGCAAGATTTTCCCTGAAGTCAAAATTTGAAATGCTCAGAGTTGAAAAAC 736  
 DB 1103 CATGTGGAGAGGACTTCTCTATTAAGAGCAATGAGAGTGTCCAGGCTCTCAAGATGT 1162  
 QY 737 TCATAGAGCAAAATATGTTGAGACGCTGAAACCCCAACAGTAAATTTGAAAAGTTCA 796  
 DB 1163 TGAATGGAGAAATAGATGAGATGAGTCAAGAGTACCTCTTAAGCAAAAGAAACCCGCTGGA 1222  
 QY 797 CTACCATCATGAACTTGAACGGGCTCTTATGAATATGTAAGTACCAATAAGAGCAA 856  
 DB 1223 AATATCACTTTGAGGTAGTGAAGACATTTAC-----CTAACCA 1264  
 QY 857 ACATCTCCAAAGAGAACCCCCCAATACATCAAGATTTTGTGAGAGTCTTATTTTG 916  
 DB 1265 ACAAGAAAGAGATCTCCCTCTTATTAATTAATTAAGTTACAGGGAATGCGTACATTTG 1324  
 QY 917 TTTTAAGCAAGCAATTTGTTAAATATATTTTCAACAACCTCCATGCTTCAAGACTTTTGG 976  
 DB 1325 TGGCTTCCGAGATTTGTCGCAACATGTTTGAAGAACCTTAATCCCAACTGATTTG 1384

QY 977 CCGTGTCTAAGACACATCTCTCTGANTGAGACATTTGGGCTTACTTGATTGGGTTT 1036  
 Db 1385 AATGGGTAAGACACATTTATAGCCAGATGACACCTCTGGGCCACCTTCAGCGGTCAC 1444  
 QY 1037 CAGGAATACCTGGGGGAATTTCCAGATTCAGCCAGGATG---TGTCTGATTCGAGAGTA 1093  
 Db 1445 GGTGGATGCTGGGCTCTGTTCCACACCCCAAGTACAGATCTAGACATGACTTTCTA 1504  
 QY 1094 AGACTGCGCTTGTCACTGATGATTTACTATGAGGCTTTTCTATCCCACT----- 1143  
 Db 1505 TTGGCAGGCTGTGTCAAGTGGCAGGTCATGAGGAGACATGATAGGGGTCTCTTATG 1564  
 QY 1144 -----TGACTGATCTCACCTTGAGAGCGTGTATTTATGAGCTGAGATTAAGT 1198  
 Db 1565 CTCCTCTCTGGATCCACAGCGGGCTATCTGCTTTATGGGGCTGGGACTTTAATT 1624  
 QY 1199 GGCCTTATCAAGATGACATTTGTTGCTATATTAATTGATTTCTAAGTGGACCTTATCT 1258  
 Db 1625 GGATGCTTCAAAACCATCTACCTGTGGCCAAAGTTGACCAAGTAGATGATATG 1684  
 QY 1259 TGATTAATGCTTGGCAGAAAAGT 1283  
 Db 1685 CTCTTCACTGCTTAAAGAAATACCT 1709

## RESULT 13

US-10-106-698-1555  
 ; Sequence 1555, Application US/10106698  
 ; Publication No. US20030109690A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ruben et al.  
 ; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
 ; FILE REFERENCE: PA003P1  
 ; CURRENT APPLICATION NUMBER: US/10/106,698  
 ; PRIOR FILING DATE: 2002-03-27  
 ; PRIOR APPLICATION NUMBER: PCT/US00/26524  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US 60/157,137  
 ; PRIOR FILING DATE: 1999-09-29  
 ; PRIOR APPLICATION NUMBER: US 60/163,280  
 ; PRIOR FILING DATE: 1999-11-03  
 ; NUMBER OF SEQ ID NOS: 8564  
 ; SOFTWARE: PatentIn Ver. 3.0  
 ; SEQ ID NO 1555  
 ; LENGTH: 2236  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; LOCATION: (2215)..(2215)  
 ; OTHER INFORMATION: n equals a,t,g, or c  
 ; NAME/KEY: misc feature  
 ; LOCATION: (2223)..(2223)  
 ; OTHER INFORMATION: n equals a,t,g, or c  
 US-10-106-698-1555

Query Match 14.1%; Score 191.8; DB 15; Length 2236;  
 Best Local Similarity 52.5%; Pred. NO. 7.7e-44; Indels 36; Gaps 3;  
 Matches 517; Conservative 0; Mismatches 432;

QY 317 TGACCAAGTATGATGATTTATCACTCTAAGAGTTATGCTCAAAAGCTTGTCTCA 376  
 Db 750 TCACCAAGACTGTGACACTTCAAGGCTGAAGAACTCATACAGTCCCACTAGCA 809  
 QY 377 AGAGAGGAAAAGCTTCCCAATAGCCATTTTGTGTGCCAAGAGATGCAATATG 436  
 Db 810 AAGAGAGGTGAGACTTCCATGCAATCTTATGATTCATGAGAAATGAAACT 869  
 QY 437 TTGAAGAGCTTATCCATGCTATATATACAGCAATATTTACTGATCCATTAATG 496  
 Db 870 TTGAAGAGCTTATCCGAGGTGTATATGCCCTCAGAAATATATCTGTGTCAATG 929

QY 497 GTAGGACCTGATACCTTCCAAAGTTGCCATGAAACATTTAGCTAAGTCTCTCCAA 556  
 Db 930 AGAAGTCCCAAGAACTTTCAAAAGAGCGGTCAAGCAATATTTCTGCTCCCAAT 989  
 QY 557 TTTTCATTTGCTCCAAATTAAGAGCTGTGAAATATGCCCAATTTCCAGATCCAGCTG 616  
 Db 990 TCTTCATAGCAGAACTGTTGGGTGTTATGCTCTGCTGCTCAGGAGTGAAGCTG 1049  
 QY 617 ATTTAATTTGCTGTGAGACCTTTGAAAGCTTCAATCCAGTGAATATGATTAAGT 676  
 Db 1050 ACCCTCACTGATGAAAGACTGTCTCCAGCTCAGCTCAGGTAATTTACTTCTGATA 1109  
 QY 677 TGTGTGGCAAGATTTTCCCTGAAAGTCAATTTTGAATTTGTTGAGTTGAAAAAC 736  
 Db 1110 CATGTGGAGCGAATTTCTTATTAAGAGCATGAGAGATGTCAGGCTCTCAAGATG 1169  
 QY 737 TCAATGAGCAATATGTTGAGACGCTGAACCCCAACAGTAATTTGAAAAGATTCA 796  
 Db 1170 TGAATGGAGAGATAGCATGAGTCAAGAGTACTCTTAAGCAAAAGAAACCGCTGA 1229  
 QY 797 CTACCATCATGAACTTGAAGCGGTGCTTATGAAATGTAAGCTACATTAAGCA 856  
 Db 1230 AATATCACTTGAAGTATGAGAGACATTTAC-----CTAACCA 1271  
 QY 857 ACATCTCCAGAGACACCCCCCAATACATTCAGATATTTGTTGCACTTATTTG 916  
 Db 1272 ACAAGAGAGATCTCCCTCCCTTATTAATTAATTAATTAATTAATTAATTAATTA 1331  
 QY 917 TTTTAAGTCAAGATTTGTTAATATTTTCAACAATCCATGTTCAAGCTTTTGG 976  
 Db 1332 TGCTTCCCGAATTTGTTCCACATGTTTGAAGAACTTAAATCCCAACATGATG 1391  
 QY 977 CCGTGTCAAGACATCTCTCTGATGAGACATTTGGGCTACTTGAATGCGGTT 1036  
 Db 1392 AATGGTAAAGACATTAATAGCCAGATGACCTCTGAGGCCACCTTCAGGTGAC 1451  
 QY 1037 CAGGAATACCTGGGGAATTTCCAGATCAGCCAGATG---TGTCTGATCTGAGAT 1093  
 Db 1452 GGTGATGCTGGGCTCTGTTCCCAACCAACCCCAAGTACAGATCTCAGATGACTTCTA 1511  
 QY 1094 AGACTGCGCTTGTCAAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1143  
 Db 1512 TTGCAGGCTGTCAAGTGGCAGGTCATGAGGAGACATGATTAAGGCTGCTTATG 1571  
 QY 1144 -----TGACTGATCTCACTTTGAGACCGTGTATTAATGAGCTGCAATTAAGT 1198  
 Db 1572 CTCCTGCTGTGATCCACAGCGGCTATCTGCTTATGAGGCTGGGAACTTGAT 1631  
 QY 1199 GGCCTTATCAAGATGACATTTGTTGCTATTAATTAATTTGATTTCAAGTGAACCTATCT 1258  
 Db 1632 GGATGCTTCAAAACCATCACTGTGGCCAAAGTTGACCCAAAGTAGATGATATG 1691  
 QY 1259 TGATTAATGCTTGGCAGAAAAGT 1283  
 Db 1692 CTCTTCACTGCTTAAAGAAATACCT 1716

## RESULT 14

US-09-874-390-1  
 ; Sequence 1, Application US/09874390  
 ; Patent No. US20020081656A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Clausen, Henrik  
 ; TITLE OF INVENTION: UDP-N-Acetylglucosamine:  
 ; TITLE OF INVENTION: Galactose-beta-1,3-N-Acetylglucosamine-alpha-R/  
 ; TITLE OF INVENTION: N-Acetylglucosamine-beta-1,3-N-Acetylglucosamine-alpha  
 ; TITLE OF INVENTION: a-R (GlcNAc to GalNAc)  
 ; TITLE OF INVENTION: beta-1,6-N-Acetylglucosaminyltransferase, C2/4  
 ; FILE REFERENCE: P199801704 WO JNY  
 ; CURRENT APPLICATION NUMBER: US/09/874,390  
 ; PRIOR FILING DATE: 2001-06-04  
 ; PRIOR APPLICATION NUMBER: DK PA 1998 01605  
 ; PRIOR FILING DATE: 1998-12-04



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QY      807 TGAACCTTAGACGGGTCCTTAGATGATATGTGAAGCTACCAATAGACACAACATCTCCA 866
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Db      693 CCAAGAGCAGCTGGGCA-----AAGAGCTTTCCTATGTGATAGACACAAGCGCTGAA 746
QY      867 GGAAGACACCCCCCATTAACATTCAGATATTTGTGGCAGTGGCTATTTGTTTAAATCA 926
      |||
Db      747 ACCGCTCCCCCCCATTAATCTCACAATTTACTTTGGCTCTGCTATGTGGCTCTATCAAG 806
QY      927 AGCATTTGTTAAATATATTTTCAACAATCCATCGTTCAAGCTTTTGGCTGCTTA 986
      |||
Db      807 AAGATTGGCAACTTGTGTCTGATGACCAAGGCTGTGATTGTGCTCAATGTGTCAA 866
QY      987 AAGACATACCTCTCCTGATGAGCACTTTGGGCTACCTGATTGGGTTCCAGAAATAC 1046
      |||
Db      867 GGACACTTCAGTCCGATGAGCATTTCTGGGTGACACTCAATAGATTTCCAGGTGTC 926
QY      1047 TGGGAGATTTCCAGATCAGCCAGCATGTGTGATCTGCAAGTAAAGCTGCTTGT 1106
      |||
Db      927 TGGCTCTATGCCAAATGCAATCCTGGACTG-----GAAACCTCAGAGCTAT 971
QY      1107 CAAGTGAATTAATATGAAGGCTTTTCTATCCAGTGTGACTGATCTACCTTGAAG 1166
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Db      972 AAGTGGAGTGAATGAAAGACAGACACGAGAGC---TCCACGGCCACTATGTACATGG 1028
QY      1167 CGTGTATTTATGAAGCTGCAAGATTAAGTGGCTTATCAAAAGATGACATGGTTGC 1226
      |||
Db      1029 TATTTGATCTATGAAACGAGACTTAAGTGGCTGTGTTAATCACCAAGCCTGTTGC 1088
QY      1227 TATTAATTTGATCTTAAGTGAACCTATCTTGATTAATGCTTGGCAGAAAGCTTGA 1286
      |||
Db      1089 TAAACAAGTTGAGCTTAATACCTAACCCCTTACTGTGAGATGCTAGAACTGAGGCATCG 1148
QY      1287 AGAA 1290
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Db      1149 CGAA 1152
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Search completed: February 1, 2004, 00:18:53  
Job time : 528 secs



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OM protein - protein search, using sw model

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(without alignments)  
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Perfect score: 2389  
Sequence: 1 MKIFCYFHTLQKVFILF.....DWITLPSKLFMDRLTTTS 453

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Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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4: /cgn2\_6/prodata/1/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/prodata/1/1aa/6CTUS\_COMB.pep:\*  
6: /cgn2\_6/prodata/1/1aa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	863.5	36.1	428	1	US-07-955-041-4
3	863.5	36.1	428	1	US-08-227-455-4
4	863.5	36.1	428	1	US-08-472-482-4
5	863.5	36.1	428	1	US-08-487-069-4
6	863.5	36.1	428	3	US-09-233-506-3
7	711	29.8	400	1	US-08-118-906-14
8	711	29.8	400	1	US-08-486-196-14
9	711	29.8	400	1	US-08-488-135-14
10	711	29.8	400	2	US-08-474-065-14
11	711	29.8	400	3	US-09-233-506-4
12	383	16.0	126	1	US-08-118-906-4
13	383	16.0	126	1	US-08-486-196-4
14	383	16.0	126	2	US-08-488-135-4
15	383	16.0	126	2	US-08-474-065-4
16	355	14.9	126	1	US-08-118-906-2
17	355	14.9	126	1	US-08-486-196-2
18	355	14.9	126	1	US-08-488-135-2
19	355	14.9	126	2	US-08-474-065-2
20	172	7.2	64	3	US-09-233-506-10
21	126	5.3	33	1	US-08-118-906-6
22	126	5.3	33	1	US-08-486-196-6
23	126	5.3	33	1	US-08-488-135-6
24	126	5.3	33	2	US-08-474-065-6
25	119	5.0	316	1	US-08-597-236-12
26	119	5.0	316	1	US-08-746-682A-12
27	113.5	4.8	794	4	US-09-417-485D-8

28	113	4.7	695	4	US-09-134-001C-4341	Sequence 4341, Ap
29	106	4.4	33	1	US-08-118-906-8	Sequence 8, Appl1
30	106	4.4	33	1	US-08-486-196-8	Sequence 8, Appl1
31	106	4.4	33	1	US-08-488-135-8	Sequence 8, Appl1
32	106	4.4	33	2	US-08-474-065-8	Sequence 8, Appl1
33	102.5	4.3	433	4	US-09-345-236B-43	Sequence 43, Appl1
34	102.5	4.3	652	1	US-08-471-570-10	Sequence 10, Appl1
35	102.5	4.3	769	1	US-08-471-570-8	Sequence 8, Appl1
36	102.5	4.3	821	2	US-08-451-822A-13	Sequence 13, Appl1
37	102.5	4.3	821	4	US-08-323-430-13	Sequence 13, Appl1
38	100.5	4.2	2184	4	US-09-417-485D-6	Sequence 6, Appl1
39	100	4.2	439	3	US-09-457-046B-6	Sequence 6, Appl1
40	97.5	4.1	310	2	US-08-701-191A-7	Sequence 7, Appl1
41	97.5	4.1	853	4	US-08-913-880C-17	Sequence 17, Appl1
42	97.5	4.1	858	4	US-08-913-880C-16	Sequence 16, Appl1
43	97.5	4.1	860	4	US-08-913-880C-15	Sequence 15, Appl1
44	97.5	4.1	862	4	US-08-913-880C-14	Sequence 14, Appl1
45	97.5	4.1	865	4	US-08-913-880C-13	Sequence 13, Appl1

## ALIGNMENTS

```
RESULT 1
US-09-233-506-2
/ Sequence 2, Application US/09233506
/ Patent No. 6136580
/ GENERAL INFORMATION:
/ APPLICANT: Yeh, Jinn-Chern
/ TITLE OF INVENTION: A Beta-1-6-N-Acetylglucosaminyltransferase That Forms
/ FILE REFERENCE: P-LJ 3415
/ CURRENT FILING DATE: 1999-01-19
/ NUMBER OF SEQ ID NOS: 14
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 2
/ LENGTH: 438
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-233-506-2

Query Match      36.3% Score 868; DB 3; Length 438;
Best Local Similarity 43.0%; Pred. No. 1.8e-76;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

QY 23 LMLSLKLINLV-----RRLFPQKDIYLVESLSTSPFVRN-RYTHVQDEVREYVNCSG 75
DB 13 LMLGCVMLATVALKLSFLKCDSDHGLGSRSSQSYCRNITLYNFKLPARKSINCSG 72
QY 76 IY-EGEPL-ETCKSLFRRDIIIDEDDVYAMTSDCIYGLGVQKLVSKKESF 131
DB 73 VTRDDQAVQALINNLNLEVKKR-EPPTDTHYVLTTRDCHEFAERKFIPLSKSEVER 131
QY 132 PIASLVVHKDAIWEERLIHAIYNOHNYCIHYDRKAPDTFKYAMNNLAKCFENIFLASK 191
DB 132 PIASVWIHKIEFPELLAAVAPQNTICVHNDKSPERFKAVALLISCFNVFLASK 191
QY 192 LEAVYVHISRLQDLNGLSGLKSTQMKYVNLGQDPPLKSNFELVSEKKGANM 251
DB 192 LVRVYVSWSRVQADLNQMDLQSSVPMYFPLNTGTDPIKSNMVMQALNMLGRNS 251
QY 252 LETVQPSNKLERTYHELRVYEVVKLPITNISKAPPHNICIFVGSAYFVLQAP 311
DB 252 MESVPPKHKETRKHYFEVVR---DTLHL---TNKKDPPYNTLMFTGNATIVASRD 305
QY 312 VKYIFNNSIVQDFPASKSTYSPDEHFWATLIRVPGIGET-SRSADQVSDLSQKRLV 370
DB 306 VOHLAKNPKSQQLIEWYKDTYSPDEHIMATIQARWVGSPVPHPKYDISDMTSIRLV 365
QY 371 WNYEGSF-----YPSGTGSLRSVCITYGAELRWLIKQDHVANKKDSYVDLILKCLA 425
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Db 366 WQHEGIDKGAFFAPGSGIHQRAICVYAGDLMNLMQNHLLANKFDPKVDNALQCLE 425  
QY 426 EKL 428  
Db 426 EYL 428

## RESULT 2

US-07-955-041-4  
Sequence 4, Application US/07955041  
Patent No. 5360733  
GENERAL INFORMATION:  
APPLICANT: FUKUDA, MINORU  
APPLICANT: BIERHUIZEN, MARTI PA  
TITLE OF INVENTION: A NOVEL BETA1-6  
TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,  
TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: CAMPBELL AND FLORES  
STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
CITY: SAN DIEGO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/955,041  
FILING DATE: 19921001  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: CAMPBELL, CATHERYN  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 9294  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-535-9001  
TELEFAX: 619-535-8949  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 428 amino acids  
TYPE: AMINO ACID  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-955-041-4

Query Match 36.1%; Score 863.5; DB 1; Length 428;  
Best Local Similarity 43.1%; Pred. No. 4.9e-76;  
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;  
QY 28 LKLLNVRRLF--PQKDIYLV-EYSLSSTSPFVNRNRYTHVDE---VRY-----EV 71  
Db 1 MLRTLLRRRLFSYPTKYFMVLVSLITFSVLR---IHQKPEFVSYRHLIELAGENPSSDI 57  
QY 72 NCGSIYQOEPLK-----SLEIRRDIIEDDDVAMTSDCOIYQTLRGYAOGLVS 125  
Db 58 NCTKVLQGDVNEIQVKLEILITVYFKRP--RMTPDYINMTSDCSSFIRKRYIYEPLS 115  
QY 126 KEKSPFIAYSLVYHKDAIWERLIIAHYNOHNIYCIHYDKAPDPTFKVAMNLIACFSN 185  
Db 116 KEKEFPFIAYSIYVHHKIEMLDRLIRAIYMPQNFYCVHDTKSEDSYLAAMGIAACFSN 175  
QY 186 IFIASKAEAYEYAHISLQADLNLCLSLKSSIQMKYINLGGODPPLKSNFELVSELK 245  
Db 176 VFVASRLESVYVYWSRVOADLNCMDLYMASANWKILINLCMDPEPIKTNIEIYAKLKL 235  
QY 246 LKGMNLETVKPSKLERFTYHHELRVYEVY--KLPIRTNISKEAPPHNIQIVGSA 303  
Db 236 LMGNNILETMRMPSHKEER-----KGIYEVVNGKL-TNTGTVMKLPPLLETPLSGSA 287

QY 304 YFVLSQAFKTIENNSIVQDPFANSKDTYEPDEHFNATLIRVGPIDPEISRSQ-DVSDL 362  
Db 288 YFVVSREYGVYVLONEKIQKLEMAQDTPSPDEYLMATQRIPEVPSLSASKRYDLSDM 347  
QY 363 QSKTRLVKNMYEGGF-----YPSCTGSHLSRVCYIYGAALRMLIKDGHWFANKFDSKVD 417  
Db 348 QAVARFYKQYFEDVDVSKGAFFPCDGVHVASVCIFQAGDLMNLMRHHILFANKFDVYDV 407  
QY 418 FILIKIAEKLIEQ 431  
Db 408 LEAIOCEDEHLRHK 421

## RESULT 3

US-08-227-455-4  
Sequence 4, Application US/08227455  
Patent No. 5624832  
GENERAL INFORMATION:  
APPLICANT: FUKUDA, MINORU  
APPLICANT: BIERHUIZEN, MARTI PA  
TITLE OF INVENTION: A NOVEL BETA1-6  
TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,  
TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: CAMPBELL AND FLORES  
STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
CITY: SAN DIEGO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/227,455  
FILING DATE: 14-APR-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: CAMPBELL, CATHERYN  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 9957  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-535-9001  
TELEFAX: 619-535-8949  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 428 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-227-455-4

Query Match 36.1%; Score 863.5; DB 1; Length 428;  
Best Local Similarity 43.1%; Pred. No. 4.9e-76;  
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;  
QY 28 LKLLNVRRLF--PQKDIYLV-EYSLSSTSPFVNRNRYTHVDE---VRY-----EV 71  
Db 1 MLRTLLRRRLFSYPTKYFMVLVSLITFSVLR---IHQKPEFVSYRHLIELAGENPSSDI 57  
QY 72 NCGSIYQOEPLK-----SLEIRRDIIEDDDVAMTSDCOIYQTLRGYAOGLVS 125  
Db 58 NCTKVLQGDVNEIQVKLEILITVYFKRP--RMTPDYINMTSDCSSFIRKRYIYEPLS 115  
QY 126 KEKSPFIAYSLVYHKDAIWERLIIAHYNOHNIYCIHYDKAPDPTFKVAMNLIACFSN 185  
Db 116 KEKEFPFIAYSIYVHHKIEMLDRLIRAIYMPQNFYCVHDTKSEDSYLAAMGIAACFSN 175



TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-487-069-4

Query Match 36.1%; Score 863.5; DB 1; Length 428;  
Best Local Similarity 43.1%; Pred. No. 4,9e-76;  
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

QY 28 LKLNVRRLF--PQKDIYV--EYSLSTSPFVNRNTHYKDE---VYR-----EV 71  
DB 1 MRLTLRRRLFSPTKYTFMVVLSLITFSYLR--IHQKPEVSVRLHLAGENPSSDI 57  
QY 72 NCSGIYQEPLEIGK-----SLAIRRDIDLEDDVVAATSDCDIQTLRGYAOKLVS 125  
DB 58 NCTKVLQGDVNEIQKVKLEILTVKFKRP--RWTDPDYINMTSDCSSFIKRRKIYVEPLS 115  
QY 126 KEKSPPIAYSLVHKDAIMVERLTHAIYNQNIYCIHYDRKAPDTEKVAAMNLAKCSN 185  
DB 116 KEBAEPPIAYSLVHKDIMEIDRLRLAIYMPQNFCAVHDTSSEDSYLAAVGIAACFSN 175  
QY 186 IFIASKLEAVEYAHISRLQADINCLSDLKSIQWKYVINLQGDPLKSNFELVSEIKK 245  
DB 176 VFVASSLESVYVASSNRVQADLNCKMDLYAMSNKYLINLQGMDFIKTNLEIVRKL 235  
QY 246 LQGANMLETVKPNKSLERFTYHHLRVPYEV--KLPIRINISKEAPPHNIQIFVGA 303  
DB 236 LMGENNLETERMPDISHKEERW-----KKRYEVNGLK-TNIGYVAMLPLETPFSGSA 287  
QY 304 YFVLQAFVKYIFNNISIVODPFAMSKDTYSPDEHFWATLIRVPGIPEISRSQAQ-DVSD 362  
DB 288 YFVSSREYGYVLQNEKIQKMEMAQDTYSPDEYLMATIQRIPEVPGSLPASHKXDLSDM 347  
QY 363 QSKTRLVKNYVGGF---YPSCTGSHLRVCYGAELRWLIKDGHWPFANKEDSKVD 417  
DB 348 QAVARFVKQYFEGDVSKAPYPCDGVHRSVCIFGAGDLNMMLRKHHLFANKEDVDVD 407  
QY 418 PIIKCLAEKLEBQ 431  
DB 408 LPAIQCLDEHLRHK 421

RESULT 6  
US-09-233-506-3  
Sequence 3, Application US/09233506  
Patent No. 6136580  
GENERAL INFORMATION:  
APPLICANT: Fukuda, Minoru  
TITLE OF INVENTION: A beta-1-6-N-Acetylglucosaminyltransferase That Forms  
FILE REFERENCE: P-LJ 3415  
CURRENT APPLICATION NUMBER: US/09233,506  
CURRENT FILING DATE: 1999-01-19  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 3  
LENGTH: 428  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-233-506-3

Query Match 36.1%; Score 863.5; DB 3; Length 428;  
Best Local Similarity 43.1%; Pred. No. 4,9e-76;  
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

QY 28 LKLNVRRLF--PQKDIYV--EYSLSTSPFVNRNTHYKDE---VYR-----EV 71  
DB 1 MRLTLRRRLFSPTKYTFMVVLSLITFSYLR--IHQKPEVSVRLHLAGENPSSDI 57  
QY 72 NCSGIYQEPLEIGK-----SLAIRRDIDLEDDVVAATSDCDIQTLRGYAOKLVS 125  
DB 58 NCTKVLQGDVNEIQKVKLEILTVKFKRP--RWTDPDYINMTSDCSSFIKRRKIYVEPLS 115

QY 126 KEKSPPIAYSLVHKDAIMVERLTHAIYNQNIYCIHYDRKAPDTEKVAAMNLAKCSN 185  
DB 116 KEBAEPPIAYSLVHKDIMEIDRLRLAIYMPQNFCAVHDTSSEDSYLAAVGIAACFSN 175  
QY 186 IFIASKLEAVEYAHISRLQADINCLSDLKSIQWKYVINLQGDPLKSNFELVSEIKK 245  
DB 176 VFVASSLESVYVASSNRVQADLNCKMDLYAMSNKYLINLQGMDFIKTNLEIVRKL 235  
QY 246 LQGANMLETVKPNKSLERFTYHHLRVPYEV--KLPIRINISKEAPPHNIQIFVGA 303  
DB 236 LMGENNLETERMPDISHKEERW-----KKRYEVNGLK-TNIGYVAMLPLETPFSGSA 287  
QY 304 YFVLQAFVKYIFNNISIVODPFAMSKDTYSPDEHFWATLIRVPGIPEISRSQAQ-DVSD 362  
DB 288 YFVSSREYGYVLQNEKIQKMEMAQDTYSPDEYLMATIQRIPEVPGSLPASHKXDLSDM 347  
QY 363 QSKTRLVKNYVGGF---YPSCTGSHLRVCYGAELRWLIKDGHWPFANKEDSKVD 417  
DB 348 QAVARFVKQYFEGDVSKAPYPCDGVHRSVCIFGAGDLNMMLRKHHLFANKEDVDVD 407  
QY 418 PIIKCLAEKLEBQ 431  
DB 408 LPAIQCLDEHLRHK 421

RESULT 7  
US-08-118-906-14  
Sequence 14, Application US/08118906  
Patent No. 5484590  
GENERAL INFORMATION:  
APPLICANT: Fukuda, Minoru  
TITLE OF INVENTION: Expression of the Developmental I  
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Campbell and Flores  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/118,906  
FILING DATE: 09-SEP-1993  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 9526  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-8949  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 400 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-118-906-14

Query Match 29.8%; Score 711; DB 1; Length 400;  
Best Local Similarity 43.7%; Pred. No. 3,8e-61;  
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

QY 108 SDCDIYQTLRGYAKVSKSEKSPPIAYSLVHKDAIMVERLTHAIYNQNIYCIHYDRK 167

Db 70 SSCKEYLTQSHYITAPLSKEADFLAYIMVHHHFDTPARLPRALYMPQNIYCVHDEK 129  
Qy 168 ADPTFVAMNNLAKCSNITFIASKLEAVYAHISRIQADINCLSDLLKSIOMKYIINLC 227  
Db 130 ATTEFDVAEQLSCFPNAPLASKMEFVYGGISRIQADINCLSDLSAFESVKYIINLC 189  
Qy 228 GDFPLKSNFELVSELKUNGMLETVPKNSKLERFTY-HHELRRVPYEVYKLPRTN 286  
Db 190 GDFPLKTNKEIYQYKGFKNITPGVLPRAHAIGRTKYVQHEHLKELSYV---IRTT 246  
Qy 287 ISKEAPPNIQIFVGSAYFVLSQAFYKIFNNISYODFPKNSKOTYSPDEHFWATLIRVP 346  
Db 247 ALKPPPHNLITIFGSAVYALSRFANFVLHDPRAVDLLQWSKOTSPDEHFWATLIRVP 306  
Qy 347 GIPGEISRSADVSDQSKTRLVKMYEGFYPSCGSHLRSCVCIYGAELRWLIKDG 406  
Db 307 GVFGSMFNAS-----WTGNLRAIKMSDMED-RHGCGHGYVHGICITYGNDLKMVNSPS 360  
Qy 407 WFANKPDSKVDPLIKCLAEKLEEQOR 433  
Db 361 LFANKPELNTYPLTVECL--ELRRRER 385

## RESULT 8

US-08-486-196-14  
Sequence 14, Application US/08486196  
Patent No. 5731420  
GENERAL INFORMATION:  
APPLICANT: Fukuda, Minoru  
TITLE OF INVENTION: Expression of the Developmental I  
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a  
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Campbell and Flores  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/486,196  
FILING DATE:  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/118,906  
FILING DATE: 09-SEP-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 9526  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-8901  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 400 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-486-196-14

Query Match 29.8%; Score 711; DB 1; Length 400;  
Best Local Similarity 43.7%; Pred. No. 3,8e-61;  
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;  
Qy 108 SDCDIYQTLRGVAGKLVSKESKFLAYSLVYVHKAIMVERLIHAIYNGHNYICHYDRK 167

Db 70 SSCKEYLTQSHYITAPLSKEADFLAYIMVHHHFDTPARLPRALYMPQNIYCVHDEK 129  
Qy 168 ADPTFVAMNNLAKCSNITFIASKLEAVYAHISRIQADINCLSDLLKSIOMKYIINLC 227  
Db 130 ATTEFDVAEQLSCFPNAPLASKMEFVYGGISRIQADINCLSDLSAFESVKYIINLC 189  
Qy 228 GDFPLKSNFELVSELKUNGMLETVPKNSKLERFTY-HHELRRVPYEVYKLPRTN 286  
Db 190 GDFPLKTNKEIYQYKGFKNITPGVLPRAHAIGRTKYVQHEHLKELSYV---IRTT 246  
Qy 287 ISKEAPPNIQIFVGSAYFVLSQAFYKIFNNISYODFPKNSKOTYSPDEHFWATLIRVP 346  
Db 247 ALKPPPHNLITIFGSAVYALSRFANFVLHDPRAVDLLQWSKOTSPDEHFWATLIRVP 306  
Qy 347 GIPGEISRSADVSDQSKTRLVKMYEGFYPSCGSHLRSCVCIYGAELRWLIKDG 406  
Db 307 GVFGSMFNAS-----WTGNLRAIKMSDMED-RHGCGHGYVHGICITYGNDLKMVNSPS 360  
Qy 407 WFANKPDSKVDPLIKCLAEKLEEQOR 433  
Db 361 LFANKPELNTYPLTVECL--ELRRRER 385

## RESULT 9

US-08-488-135-14  
Sequence 14, Application US/08488135  
Patent No. 5766910  
GENERAL INFORMATION:  
APPLICANT: Fukuda, Minoru  
TITLE OF INVENTION: Expression of the Developmental I  
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a  
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Campbell and Flores  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/488,135  
FILING DATE:  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/118,906  
FILING DATE: 09-SEP-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 9526  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-8901  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 400 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-488-135-14

Query Match 29.8%; Score 711; DB 1; Length 400;  
Best Local Similarity 43.7%; Pred. No. 3,8e-61;  
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

QY 108 SDCDIYOTLNGVAKVSKKEKSPPIAYSLVYHKDAIMVERLTHATYNOHNYCIHYDRK 167  
DB 70 SSCKEYLTQSHYITAPLSKEADFPPLAYIVIHHPDTPARLRAIYMPONITCAVHDER 129  
QY 168 APDTFKVAMNNLAKCFENIFIAKLAEVAYAHISRLQADINCLSDLLKSSIQMKYVINTC 227  
DB 130 ATTEFKDAVEQLSCFPNAPLASMPEVYVGGISRLQADINCLSDLSAFESVSKYVINTC 189  
QY 228 GQDFPLKSNFELVSELKLGANMLLEVYKPNKLEFYT-HHELRAVPEYVKLPRTN 286  
DB 190 GQDFPLKSNFELVSELKLGANMLLEVYKPNKLEFYT-HHELRAVPEYVKLPRTN 246  
QY 287 ISKEAPPHNIQIFVGSAYFVLSQAFVYKIFNNISIVDFPWSKOTYSPDEHFWATLIRVP 346  
DB 247 ALKPPPHNLITYGSAVYVALSREFAFVLDRAVDLLQWSKOTSPDEHFWATLIRIP 306  
QY 347 GIPGEISRSADVSDLSKTRLYKMYEGFFPSCGSHLSVCITYGAALFMLIKDGH 406  
DB 307 GVPGSMFNAS----WTGNIRAIKMSDMED-RHGCGGHYVHGICITYGNDLKMVLNPS 360  
QY 407 WFANKPDSKVDPIILIKLAEKLEEOOR 433  
DB 361 LFANKFELNTPYPLTVECL--ELHRRER 385

## RESULT 10

US-08-474-065-14  
Sequence 14, Application US/08474065  
Patent No. 5830465  
GENERAL INFORMATION:  
APPLICANT: Fukuda, Minoru  
TITLE OF INVENTION: Expression of the Developmental I  
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a  
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Campbell and Flores  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/474,065  
FILING DATE:  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/118,906  
FILING DATE: 09-SEP-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 9526  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-9001  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 400 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-474-065-14

Query Match 29.8%; Score 711; DB 2; Length 400;  
Best Local Similarity 43.7%; Pred. No. 3,8e-61;  
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

QY 108 SDCDIYOTLNGVAKVSKKEKSPPIAYSLVYHKDAIMVERLTHATYNOHNYCIHYDRK 167  
DB 70 SSCKEYLTQSHYITAPLSKEADFPPLAYIVIHHPDTPARLRAIYMPONITCAVHDER 129  
QY 168 APDTFKVAMNNLAKCFENIFIAKLAEVAYAHISRLQADINCLSDLLKSSIQMKYVINTC 227  
DB 130 ATTEFKDAVEQLSCFPNAPLASMPEVYVGGISRLQADINCLSDLSAFESVSKYVINTC 189  
QY 228 GQDFPLKSNFELVSELKLGANMLLEVYKPNKLEFYT-HHELRAVPEYVKLPRTN 286  
DB 190 GQDFPLKSNFELVSELKLGANMLLEVYKPNKLEFYT-HHELRAVPEYVKLPRTN 246  
QY 287 ISKEAPPHNIQIFVGSAYFVLSQAFVYKIFNNISIVDFPWSKOTYSPDEHFWATLIRVP 346  
DB 247 ALKPPPHNLITYGSAVYVALSREFAFVLDRAVDLLQWSKOTSPDEHFWATLIRIP 306  
QY 347 GIPGEISRSADVSDLSKTRLYKMYEGFFPSCGSHLSVCITYGAALFMLIKDGH 406  
DB 307 GVPGSMFNAS----WTGNIRAIKMSDMED-RHGCGGHYVHGICITYGNDLKMVLNPS 360  
QY 407 WFANKPDSKVDPIILIKLAEKLEEOOR 433  
DB 361 LFANKFELNTPYPLTVECL--ELHRRER 385

## RESULT 11

US-09-233-506-4  
Sequence 4, Application US/09233506  
Patent No. 6136580  
GENERAL INFORMATION:  
APPLICANT: Fukuda, Minoru  
TITLE OF INVENTION: Yeh, Jium-Chern  
TITLE OF INVENTION: A Beta-1-6-N-Acetylglucosaminyltransferase That Forms  
TITLE OF INVENTION: Core 2, Core 4 and 1 Branches  
FILE REFERENCE: P-LJ 3415  
CURRENT APPLICATION NUMBER: US/09/233,506  
CURRENT FILING DATE: 1999-01-19  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 400  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-233-506-4

Query Match 29.8%; Score 711; DB 3; Length 400;  
Best Local Similarity 43.7%; Pred. No. 3,8e-61;  
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

QY 108 SDCDIYOTLNGVAKVSKKEKSPPIAYSLVYHKDAIMVERLTHATYNOHNYCIHYDRK 167  
DB 70 SSCKEYLTQSHYITAPLSKEADFPPLAYIVIHHPDTPARLRAIYMPONITCAVHDER 129  
QY 168 APDTFKVAMNNLAKCFENIFIAKLAEVAYAHISRLQADINCLSDLLKSSIQMKYVINTC 227  
DB 130 ATTEFKDAVEQLSCFPNAPLASMPEVYVGGISRLQADINCLSDLSAFESVSKYVINTC 189  
QY 228 GQDFPLKSNFELVSELKLGANMLLEVYKPNKLEFYT-HHELRAVPEYVKLPRTN 286  
DB 190 GQDFPLKSNFELVSELKLGANMLLEVYKPNKLEFYT-HHELRAVPEYVKLPRTN 246  
QY 287 ISKEAPPHNIQIFVGSAYFVLSQAFVYKIFNNISIVDFPWSKOTYSPDEHFWATLIRVP 346  
DB 247 ALKPPPHNLITYGSAVYVALSREFAFVLDRAVDLLQWSKOTSPDEHFWATLIRIP 306  
QY 347 GIPGEISRSADVSDLSKTRLYKMYEGFFPSCGSHLSVCITYGAALFMLIKDGH 406  
DB 307 GVPGSMFNAS----WTGNIRAIKMSDMED-RHGCGGHYVHGICITYGNDLKMVLNPS 360  
QY 407 WFANKPDSKVDPIILIKLAEKLEEOOR 433  
DB 361 LFANKFELNTPYPLTVECL--ELHRRER 385

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RESULT 12
US-08-118-906-4
; Sequence 4, Application US/08118906
; Patent No. 5684590
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Blerhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human CDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell, and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08-118, 906
; FILING DATE: 09-SEP-1993
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO.: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 126 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-118-906-4

Query Match: 16.0%; Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred.No.8.2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

QY 119 YAQKLVSKREKSFPIAYSLVVKDAIWERLIIHALYNQNIYCIHYDRKADPTFKVMNN 178
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1 YIVERPLSKEEAEFFPIAYSIVVHKIKEMDRLIRAIYMPQNFVCYAVDTKSDSYLAVMG 60
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 179 LAKGSNIFIAKSILEAVEVAHISRPQADINCLSDLKSIQKVYINICGGDFPKSPFE 238
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 61 IASCSNPFVSRLESVVYASMSRVQADLNCKDKDYAMSAWKYLINLCGDWFPKIMLE 120
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 239 LVSELK 244
      : : : :
Db 121 IVRKLK 126
      : : : :

RESULT 13
US-08-486-196-4
; Sequence 4, Application US/08486196
; Patent No. 5731420
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Blerhuizen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human CDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:

```

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1 ADDRESS: Campbell and Flores
2 STREET: 4370 La Jolla Village Drive, Suite 700
3 City: San Diego
4 STATE: California
5 COUNTRY: USA
6 ZIP: 92122
7
8 COMPUTER READABLE FORM:
9 MEDIUM TYPE: Floppy disk
10 COMPUTER: IBM PC compatible
11 OPERATING SYSTEM: PC-DOS/MS-DOS
12 SOFTWARE: Patentin Release #1.0, Version #1.25
13 CURRENT APPLICATION DATA:
14 APPLICATION NUMBER: US/08/486,196
15 FILING DATE:
16 CLASSIFICATION: 424
17 PRIOR APPLICATION DATA:
18 APPLICATION NUMBER: US 08/118,906
19 FILING DATE: 09-SEP-1993
20 ATTORNEY/AGENT INFORMATION:
21 NAME: Campbell, Cathryn A.
22 REGISTRATION NUMBER: 31,815
23 TELECOMMUNICATION INFORMATION:
24 TELEPHONE: (619) 535-9001
25 TELEFAX: (619) 535-8949
26 INFORMATION FOR SEQ ID NO: 4:
27 SEQUENCE CHARACTERISTICS:
28 LENGTH: 126 amino acids
29 TYPE: amino acids
30 TOPOLOGY: linear
31 MOLECULE TYPE: protein
32 US-08-486-196-4
33
34 Query Match 16.0%; Score 383; DB 1; Length 126;
35 Best Local Similarity 54.8%; Pred. No. 8.2e-30;
36 Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;
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38 QY 119 YAQLVKEKESKPEPIASLVYHGDALVERLIHAIYQNHNYICHYRKAQDPTKVMAN 178
39 D 1 YIYPLSKKEKEPEPIASIVYHHRKIEMLDLRLAIYMPQNFYCVHVTKEKSDSYLAVMG 60
40
41 QY 179 LAKFNSIFIKAEAYEYAHISRLQADLNCLSPLDKSIOMKVINICGDFPLKSNFE 238
42 D 61 IASFSNVFVASRLSESVYASWSRQADLNCMDLVMASNMKYLINLCGDFPLKTNLE 120
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44 QY 239 LVSELK 244
45 D 121 IYRLK 126
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47 RESULT 14
48 US-08-486-135-4
49 Sequence 4, Application US/08486135
50 Patent No. 5786910
51 GENERAL INFORMATION:
52 APPLICANT: Fukuda, Minoru
53 APPLICANT: Biehuizen, Marti F.A.
54 TITLE OF INVENTION: Expression of the Developmental I
55 TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
56 TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
57 NUMBER OF SEQUENCES: 14
58 CORRESPONDENCE ADDRESS:
59 ADDRESSEE: Campbell and Flores
60 STREET: 4370 La Jolla Village Drive, Suite 700
61 City: San Diego
62 STATE: California
63 COUNTRY: USA
64 ZIP: 92122
65
66 COMPUTER READABLE FORM:
67 MEDIUM TYPE: Floppy disk
68 COMPUTER: IBM PC compatible
69 OPERATING SYSTEM: PC-DOS/MS-DOS
70 SOFTWARE: Patentin Release #1.0, Version #1.25

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,135
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-8901
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 126 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-488-135-4

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Query Match      16.0%; Score 383; DB 1; Length 126;
Best Local Similarity 54.8%; Pred. No. 8.2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

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QY 119 YAQKLVSKKEKSPFIYSLVHKDAIMVERLIHAIYNGHNYCIHYDRKAPDPTFKVAMNN 178
DB 1 YIVEPLSKKEAEFPFIYSLVHKHKTMLDRLRAIYMPQFCVHVDTSKSDSYLAAMVG 60
QY 179 LAKCFNFIASKLEAVEYAHISRLOADINCLSDLLKSSIQWKYVINLGGDFPKSNFE 238
DB 61 IASCFNIVFASRLSESVYASMSRVQADINCKMDLYAMSANKYILNLGMDFPFKTNLE 120
QY 239 LVSELK 244
DB 121 IVRKLK 126

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RESULT 15
US-08-474-065-4
; Sequence 4; Application US/08474065
; Patent No. 5830465
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Bernutzen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESSES:
; ADDRESSES: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/474,065
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526

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;
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 126 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-474-065-4

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Query Match      16.0%; Score 383; DB 2; Length 126;
Best Local Similarity 54.8%; Pred. No. 8.2e-30;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

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QY 119 YAQKLVSKKEKSPFIYSLVHKDAIMVERLIHAIYNGHNYCIHYDRKAPDPTFKVAMNN 178
DB 1 YIVEPLSKKEAEFPFIYSLVHKHKTMLDRLRAIYMPQFCVHVDTSKSDSYLAAMVG 60
QY 179 LAKCFNFIASKLEAVEYAHISRLOADINCLSDLLKSSIQWKYVINLGGDFPKSNFE 238
DB 61 IASCFNIVFASRLSESVYASMSRVQADINCKMDLYAMSANKYILNLGMDFPFKTNLE 120
QY 239 LVSELK 244
DB 121 IVRKLK 126

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Job time : 22 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 30, 2004, 12:55:31 (Search time 40 seconds  
(without alignments)  
2353.608 Million cell updates/sec

Title: US-10-084-406-2

Perfect score: 2389

Sequence: 1 MKIFKCFKHTLQOKVFLF.....DWITLPEKLFMDNLTTS 453

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Gapop 10.0, Gapext 0.5

Searched: 789580 seqs, 207824079 residues

Total number of hits satisfying chosen parameters: 789580

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2389	100.0	453	US-10-388-307-2	Sequence 2, Appl1
2	2389	100.0	453	US-10-084-406-2	Sequence 2, Appl1
3	2389	100.0	1104	US-09-793-998-11	Sequence 11, Appl1
4	1985.5	83.1	455	US-09-793-998-8	Sequence 8, Appl1
5	868	36.3	438	US-09-874-390-2	Sequence 2, Appl1
6	868	36.3	438	US-09-797-207-2	Sequence 2, Appl1
7	868	36.3	438	US-09-981-353-44	Sequence 44, Appl1
8	868	36.3	438	US-10-388-307-15	Sequence 15, Appl1
9	868	36.3	438	US-10-084-406-15	Sequence 15, Appl1
10	868	36.3	465	US-10-106-698-5832	Sequence 5832, Ap
11	868	36.2	663	US-09-797-207-4	Sequence 4, Appl1
12	868	36.2	465	US-09-925-297-796	Sequence 796, App
13	863.5	36.1	428	US-09-797-207-14	Sequence 14, Appl
14	863.5	36.1	428	US-10-388-307-13	Sequence 13, Appl
15	863.5	36.1	428	US-10-084-406-13	Sequence 13, Appl

16	862	36.1	406	9	US-09-797-207-9	Sequence 9, Appl1
17	856.5	35.9	437	9	US-09-797-207-20	Sequence 20, Appl1
18	711	29.8	400	12	US-10-388-307-17	Sequence 17, Appl1
19	711	29.8	400	15	US-10-084-406-17	Sequence 17, Appl1
20	609	25.5	237	9	US-09-793-998-2	Sequence 2, Appl1
21	362	15.2	120	12	US-10-029-386-30717	Sequence 30717, A
22	285	11.9	145	12	US-10-108-260A-4764	Sequence 4764, Ap
23	219.5	9.2	865	12	US-10-347-470A-17	Sequence 17, Appl
24	213.5	8.9	827	12	US-10-347-470A-16	Sequence 16, Appl
25	174	7.3	57	12	US-10-029-386-28898	Sequence 28898, A
26	160	6.7	866	12	US-10-347-470A-15	Sequence 15, Appl
27	116	4.9	895	12	US-10-369-493-1036	Sequence 1036, Ap
28	113.5	4.8	794	12	US-10-304-095-8	Sequence 8, Appl1
29	109	4.6	74	9	US-09-864-761-35468	Sequence 35468, A
30	108.5	4.5	661	10	US-09-801-368-4422	Sequence 422, App
31	107	4.5	62	12	US-10-029-386-28620	Sequence 28620, A
32	107	4.5	1089	12	US-10-369-493-2154	Sequence 2154, Ap
33	102.5	4.3	821	12	US-10-394-322A-27	Sequence 27, Appl
34	100.5	4.2	665	12	US-10-130-973A-9	Sequence 9, Appl1
35	100.5	4.2	882	12	US-10-130-973A-3	Sequence 3, Appl1
36	100.5	4.2	907	12	US-10-130-973A-5	Sequence 5, Appl1
37	100.5	4.2	2184	12	US-10-304-095-6	Sequence 6, Appl1
38	100	4.2	439	10	US-09-866-572A-68	Sequence 68, Appl
39	100	4.2	439	10	US-09-866-570A-68	Sequence 68, Appl
40	100	4.2	439	12	US-10-166-984-68	Sequence 68, Appl
41	100	4.2	439	15	US-10-166-984-68	Sequence 68, Appl
42	98	4.1	407	15	US-10-169-048-30	Sequence 30, Appl
43	97.5	4.1	469	12	US-10-452-024-182	Sequence 182, App
44	97.5	4.1	573	12	US-10-452-024-177	Sequence 177, App
45	97.5	4.1	634	12	US-10-369-493-13867	Sequence 13867, A

## ALIGNMENTS

RESULT 1		US-10-388-307-2	
Sequence 2, Application US/10388307			
General Information:			
Applicant: Clausen, Henrik			
Title of Invention: UPD-N-Acetylglucosamine:			
Title of Invention: Galactose-beta1,3-N-Acetylglucosamine-6-phosphate-6-N-Acetylglucosaminyltransferase, C2GNT3			
File Reference: 4503/1G031			
Current Application Number: US/10/388,307			
Current Filing Date: 2003-03-13			
Prior Application Number: US/09/645,192			
Prior Filing Date: 2000-08-24			
Prior Application Number: US 60/150,488			
Prior Filing Date: 1999-08-24			
Number of SEQ ID NOS: 17			
Software: FASTSEQ for Windows Version 3.0			
SEQ ID NO 2			
Length: 453			
Type: PRT			
Organism: Human			
US-10-388-307-2			
Query Match		100.0%; Score 2389; DB 12; Length 453;	
Best Local Similarity		Pred. No. 3, 9e-219;	
Matches 453; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
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DB		1 MKIFKCFKHTLQOKVFLF.....DWITLPEKLFMDNLTTS 60	
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DB		61 THVDEVRVYVNSGIVGEPLEIGKSLIRRDIDLEDDVYVNTSPDCDIYQTIRGVA 120	
QY		121 QKLVSKKSKFPPLAVSLVHKDAIWRRLIHALYNGHNICYHYDKAPDTPVANNMNA 180	

Db 121 QKLVSEKSPFIASLVHKAIVVERLTHAIYNOHNYCYHYRKAADTFKAMNLA 180  
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Db 181 KCFSNIFIASKLEAVEYAHISRLQADLNCISDLKSSIQWKYVINCQODFPLKSNFELY 240  
QY 241 SELKUNGANMLETVKPPSKLERFTYHHELRVPEYVCLPIRINISKEAPPHNIQIFV 300  
Db 241 SELKUNGANMLETVKPPSKLERFTYHHELRVPEYVCLPIRINISKEAPPHNIQIFV 300  
QY 301 GSAFYVLSQAFVKYIFNNISIVODFFAMSKDTYSPDEHFWATLIRVPGIPGEISRSADVS 360  
Db 301 GSAFYVLSQAFVKYIFNNISIVODFFAMSKDTYSPDEHFWATLIRVPGIPGEISRSADVS 360  
QY 361 DLOSKTRLVKMNYYEGFFPSCGSHRSVCITYGAELRWLTKDGHFWANKPDSKYDPI 420  
Db 361 DLOSKTRLVKMNYYEGFFPSCGSHRSVCITYGAELRWLTKDGHFWANKPDSKYDPI 420  
QY 421 IKCLAERLEBQORDWITLPSSEKLFMDRNLTTTS 453  
Db 421 IKCLAERLEBQORDWITLPSSEKLFMDRNLTTTS 453

## RESULT 2

US-10-084-406-2  
; Sequence 2, Application US/10084406  
; Publication No. US20030054525A1  
; GENERAL INFORMATION:  
; APPLICANT: Schwiientek, Tilo  
; APPLICANT: Clausen, Henrik  
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:  
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine- $\alpha$ -R / (GLCNAc  
; FILE REFERENCE: 4503/1G031  
; CURRENT APPLICATION NUMBER: US/10/084,406  
; CURRENT FILING DATE: 2002-02-25  
; PRIOR APPLICATION NUMBER: 09/645,192  
; PRIOR FILING DATE: 2000-08-24  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 453  
; TYPE: PRT  
; ORGANISM: Human  
US-10-084-406-2

Query Match 100.0%; Score 2389; DB 15; Length 453;  
Best Local Similarity 100.0%; Pred. No. 3,9e-219;  
Matches 453; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIFKCYFKHTLQOKVFILFTLMLSLKLVNRLFPQKDIYVEYSLSTSPFRNRY 60  
Db 1 MKIFKCYFKHTLQOKVFILFTLMLSLKLVNRLFPQKDIYVEYSLSTSPFRNRY 60  
QY 61 THYDEVRYEYVNCSGIYEOEPLEIGKSLERRDIDLEDDDVVAWTSDDIYQTLRGYA 120  
Db 61 THYDEVRYEYVNCSGIYEOEPLEIGKSLERRDIDLEDDDVVAWTSDDIYQTLRGYA 120  
QY 121 QKLVSEKSPFIASLVHKAIVVERLTHAIYNOHNYCYHYRKAADTFKAMNLA 180  
Db 121 QKLVSEKSPFIASLVHKAIVVERLTHAIYNOHNYCYHYRKAADTFKAMNLA 180  
QY 181 KCFSNIFIASKLEAVEYAHISRLQADLNCISDLKSSIQWKYVINCQODFPLKSNFELY 240  
Db 181 KCFSNIFIASKLEAVEYAHISRLQADLNCISDLKSSIQWKYVINCQODFPLKSNFELY 240  
QY 241 SELKUNGANMLETVKPPSKLERFTYHHELRVPEYVCLPIRINISKEAPPHNIQIFV 300  
Db 241 SELKUNGANMLETVKPPSKLERFTYHHELRVPEYVCLPIRINISKEAPPHNIQIFV 300  
QY 301 GSAFYVLSQAFVKYIFNNISIVODFFAMSKDTYSPDEHFWATLIRVPGIPGEISRSADVS 360

Db 301 GSAFYVLSQAFVKYIFNNISIVODFFAMSKDTYSPDEHFWATLIRVPGIPGEISRSADVS 360  
QY 361 DLOSKTRLVKMNYYEGFFPSCGSHRSVCITYGAELRWLTKDGHFWANKPDSKYDPI 420  
Db 361 DLOSKTRLVKMNYYEGFFPSCGSHRSVCITYGAELRWLTKDGHFWANKPDSKYDPI 420  
QY 421 IKCLAERLEBQORDWITLPSSEKLFMDRNLTTTS 453  
Db 421 IKCLAERLEBQORDWITLPSSEKLFMDRNLTTTS 453

## RESULT 3

US-09-793-998-11  
; Sequence 11, Application US/09793998  
; Patent No. US20020045202A1  
; GENERAL INFORMATION:  
; APPLICANT: KORCZAK, BOZENA  
; APPLICANT: LEW, APRIL  
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGALACTOSAMINYLTRANSFERENCE  
; FILE REFERENCE: GAYCO-16  
; CURRENT APPLICATION NUMBER: US/09/793,998  
; CURRENT FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: 60/185,702  
; PRIOR FILING DATE: 2000-02-29  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 11  
; LENGTH: 1104  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-793-998-11

Query Match 100.0%; Score 2389; DB 9; Length 1104;  
Best Local Similarity 100.0%; Pred. No. 1,5e-218;  
Matches 453; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKIFKCYFKHTLQOKVFILFTLMLSLKLVNRLFPQKDIYVEYSLSTSPFRNRY 60  
Db 273 MKIFKCYFKHTLQOKVFILFTLMLSLKLVNRLFPQKDIYVEYSLSTSPFRNRY 332  
QY 61 THYDEVRYEYVNCSGIYEOEPLEIGKSLERRDIDLEDDDVVAWTSDDIYQTLRGYA 120  
Db 333 THYDEVRYEYVNCSGIYEOEPLEIGKSLERRDIDLEDDDVVAWTSDDIYQTLRGYA 392  
QY 121 QKLVSEKSPFIASLVHKAIVVERLTHAIYNOHNYCYHYRKAADTFKAMNLA 180  
Db 121 QKLVSEKSPFIASLVHKAIVVERLTHAIYNOHNYCYHYRKAADTFKAMNLA 180  
QY 181 KCFSNIFIASKLEAVEYAHISRLQADLNCISDLKSSIQWKYVINCQODFPLKSNFELY 240  
Db 181 KCFSNIFIASKLEAVEYAHISRLQADLNCISDLKSSIQWKYVINCQODFPLKSNFELY 240  
QY 241 SELKUNGANMLETVKPPSKLERFTYHHELRVPEYVCLPIRINISKEAPPHNIQIFV 300  
Db 241 SELKUNGANMLETVKPPSKLERFTYHHELRVPEYVCLPIRINISKEAPPHNIQIFV 300  
QY 301 GSAFYVLSQAFVKYIFNNISIVODFFAMSKDTYSPDEHFWATLIRVPGIPGEISRSADVS 360  
Db 301 GSAFYVLSQAFVKYIFNNISIVODFFAMSKDTYSPDEHFWATLIRVPGIPGEISRSADVS 360  
QY 361 DLOSKTRLVKMNYYEGFFPSCGSHRSVCITYGAELRWLTKDGHFWANKPDSKYDPI 420  
Db 361 DLOSKTRLVKMNYYEGFFPSCGSHRSVCITYGAELRWLTKDGHFWANKPDSKYDPI 420  
QY 421 IKCLAERLEBQORDWITLPSSEKLFMDRNLTTTS 453  
Db 421 IKCLAERLEBQORDWITLPSSEKLFMDRNLTTTS 453

RESULT 4  
US-09-793-998-8  
; Sequence 8, Application US/09793998

```

; Patent No. US20020045202A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; FILE REFERENCE: GLYCO-16
; CURRENT APPLICATION NUMBER: US/09/793,998
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/185,702
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 455
; TYPE: PR
; ORGANISM: Mus sp.
; US-09-793-998-8

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```

Query Match      83.1%; Score 1985.5; DB 9; Length 455;
Best Local Similarity 82.8%; Pred. No. 1,3e-180;
Matches 370; Conservative 35; Mismatches 41; Indels 1; Gaps 1;

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QY 1 MKIFKCYFPHLTOOKKPILEFLTLMLSLKLNIV-RLEFPKDIYLVESLSTSPFVNR 59
DB 1 MKIFKCYFPHLTOOKKPILEFLTLMLSLKLNIV-RLEFPKDIYLVESLSTSPFVNR 60
QY 60 YTHKDEVRVENCISYIEOEPLIEGKSLERRRDIIDLEDDVVAWTSDDCIYOTLNGY 119
DB 61 FPGSGAARDNVNCSGYVEHEPHEIGKSLERRRDIIDLEDDVVAWTSDDCIYOTLNGY 120
QY 120 AQLVKEKESFPIASLVVHKDALINVERLHAIVNQHNYICIHDRKAPDFFKAMNVL 179
DB 121 HEVLVREEDDFPIASLVVHKDALINVERLHAIVNQHNYICIHDRKAPDFFKAMNVL 180
QY 180 AKCFNSIFLASKLEAVEYAHISRLQADLNCLSDLKSSIQMKVIVNLCGDDPPLSNFEL 239
DB 181 AKCFNIFLASKLEAVEYAHISRLQADLNCLSDLKSSIQMKVIVNLCGDDPPLSNFEL 240
QY 240 VSELKTLNGANMLETYPKSPKLEPFTYHELRVDEYEVKLPRTNISKEAPPHNIQIF 299
DB 241 VTELKSLQGRNMLETYPKSPKLEPFTYHELRVDEYEVKLPRTNISKEAPPHNIQIF 300
QY 300 VGSAYFVLSOAFYKTYFNNISYVODFPFAMSKDTYSPDEHMAWTLIRVPGIRGEISRAQDV 359
DB 301 VGSAYFVLSOAFYKTYFNNISYVODFPFAMSKDTYSPDEHMAWTLIRVPGIRGEISRAQDV 360
QY 360 SDIQSKTRLVKMYVGFYFVPSCTGSHLSVCITYGAABLRLIKDGHWFANKFDSKVDPI 419
DB 361 SDIQSKTRLVKMYVGFYFVPSCTGSHLSVCITYGAABLRLIKDGHWFANKFDSKVDPI 420
QY 420 LMKCLAEKLEEOORDWITLPSKELFMD 446
DB 421 LMKCLAEKLEEOORDWITLPSKELFMD 447

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RESULT 5
US-09-874-390-2
; Sequence 2, Application US/09874390
; Patent No. US20020081656A1
; GENERAL INFORMATION:
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: UDP-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta-1,3-N-Acetylglactosamine-alpha-R /
; TITLE OF INVENTION: N-Acetylglucosamine-beta-1,3-N-Acetylglactosamine-alpha
; TITLE OF INVENTION: a-R (GLCNAc to GALNAc)
; TITLE OF INVENTION: beta-1,6-N-Acetylglucosaminyltransferase, C2/4
; FILE REFERENCE: P19801704 WO JNY
; CURRENT APPLICATION NUMBER: US/09/874,390
; CURRENT FILING DATE: 2001-06-04
; PRIOR APPLICATION NUMBER: DK PA 1998 01605
; PRIOR FILING DATE: 1998-12-04
; NUMBER OF SEQ ID NOS: 10

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 438
; TYPE: PR
; ORGANISM: Homo sapiens
; US-09-874-390-2

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Query Match      36.3%; Score 868; DB 9; Length 438;
Best Local Similarity 43.0%; Pred. No. 5.2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

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QY 23 LMLSLKLNIV-----RLEFPKDIYLVESLSTSPFVNR-RYTHVDEVRVENCISG 75
DB 13 LMLSGCYMLATVATKLSFRLKCDSDHLEHESRSQSYCRNLTLYNFKLPARSINCSG 72
QY 76 IV--EOPPL--ETGKSLERRRDIIDLEDDVVAWTSDDCIYOTLNGYAKVSKESP 131
DB 73 VTRGDQRAVLQALINNLVEVKKR--EPPTDHYILSTRDCHEFAERKFIQPLSKKEVER 131
QY 132 PIASLVVHKDALINVERLHAIVNQHNYICIHDRKAPDFFKAMNVLAKCFNSIFLASK 191
DB 132 PIASLVVHKDALINVERLHAIVNQHNYICIHDRKAPDFFKAMNVLAKCFNSIFLASK 191
QY 192 LEAVEYAHISRLQADLNCLSDLKSSIQMKVIVNLCGDDPPLSNFELVSELKTLNGANM 251
DB 192 LVRVYVSWSRVQADLNCMEDELQSSVPMKTYFNTGCTDPIKSNEMVQALKMLGRNS 251
QY 252 LETVAPNSKLEPFTYHELRVDEYEVKLPRTNISKEAPPHNIQIFVGSAYFVLSOAF 311
DB 252 MESEVPKHEKTRKHYFEVYR---DTLHL---TNKKDPPYNTLMFTGNATIVASRDF 305
QY 312 VKTYFNNISYVODFPFAMSKDTYSPDEHMAWTLIRVPGIRGEI-SRSADVSDLSKTRLVK 370
DB 306 VQHVTKNPKSQQLLEWVQDYSDEHMAWTLQRAWVPGSVPMKPKYDISDMTISIRLVK 365
QY 371 WNYEGFPE-----YPSCTGSHLSVCITYGAABLRLIKDGHWFANKFDSKVDPIILKCLA 425
DB 366 WQHGSGIDGAPAPPCSGIHQRAICVYAGDLNMLQNHHLANKFDPKVDNALQCLE 425
QY 426 EKL 428
DB 426 EYL 428

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RESULT 6
US-09-797-207-2
; Sequence 2, Application US/09797207
; Patent No. US20020098563A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; FILE REFERENCE: GLYCO-7P1
; CURRENT APPLICATION NUMBER: US/09/797,207
; CURRENT FILING DATE: 2001-03-02
; EARLIER APPLICATION NUMBER: 09/495,913
; EARLIER FILING DATE: 2000-02-02
; EARLIER APPLICATION NUMBER: 60/118,674
; EARLIER FILING DATE: 1999-02-03
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 438
; TYPE: PR
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Recombinant
; OTHER INFORMATION: amino acid
; US-09-797-207-2

```

```

Query Match      36.3%; Score 868; DB 9; Length 438;
Best Local Similarity 43.0%; Pred. No. 5.2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

```

```

QY 23 LMTLSLKLTINV-----RRLFPQDIYLVESLSTSPFVRN-RYTHVDEYREYVNCSG 75
DB 13 LMLGCMYMLATYALKISFRLKCDSDHLGLSRESOSQYCRNLTLYFLTLPAKRSINCSG 72
QY 76 IV--E0EPL--EIGKSLERIRDDIIDLDDVVAMTSDCDIYQTLNGVAKLVSEKESF 131
DB 73 VTRGDCAVYQALINNLLEVKKR--EPFTDTHYLSLRDCEHFAEKRFQFPLSKBEVEF 131
QY 132 PIAYSLVHMDALMVERLTHAIYNOHNYICIHDRKAPDTPFYAMNNLAKCSNFIASK 191
DB 132 PIAYSWIHEKIEHFERLRAVYAPONITCVHDEKSPETFEKAVAIISCFPNVFIASK 191
QY 132 PIAYSLVHMDALMVERLTHAIYNOHNYICIHDRKAPDTPFYAMNNLAKCSNFIASK 191
DB 132 PIAYSWIHEKIEHFERLRAVYAPONITCVHDEKSPETFEKAVAIISCFPNVFIASK 191
QY 192 LEAVEVAHISRLQADINCLSDLLKSIOMKYVINLGGOPFLKSNFELVSELKNGAMN 251
DB 192 LVRVYVSWRQVQADINCMEDLLQSSVPKXFLNTGTDTPFIKSNMENVQALOMNGRNS 251
QY 252 LETVKEPNSKLEPFTYHHELRVRYEVYKLPITNISKAPRNIOIFVGSAYFVLSQAF 311
DB 252 MESEVPKHKETRKHYFEVVR--DTLH--TNKKDPPPNLTMFTGNAYIVASRDF 305
QY 312 VKYIFNNSIYODPFAMSKDTPSPDEHFWATLIRVPGIPEI--SRSAQVSDLSQKTRLYK 370
DB 306 VQHYLKNPKSQOLIEWKDTYSPDEHLMATLQARMPGSPVPHPKYDIDSMTSIARLYK 365
QY 371 WNYEGFF-----YPSCTGSHLSVCITYGAELRMLIKDGHWFANKFDSKVDPIIKCIA 425
DB 366 WQHEGDIKGAAPYAPCSGIHQALICVYGAGDINMMLQNHHLIANFDPKVDNALQCLE 425
QY 426 EYL 428
DB 426 EYL 428

RESULT 7
US-09-981-353-44
; Sequence 44, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Laeek, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; LENGTH: 438
; TYPE: PRF
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 2921009CD1
US-09-981-353-44

Query Match 36.3%; Score 868; DB 10; Length 438;
Best Local Similarity 43.0%; Pred. No. 5,2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

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DB 192 LVRVYVSWRQVQADINCMEDLLQSSVPKXFLNTGTDTPFIKSNMENVQALOMNGRNS 251
QY 252 LETVKEPNSKLEPFTYHHELRVRYEVYKLPITNISKAPRNIOIFVGSAYFVLSQAF 311
DB 252 MESEVPKHKETRKHYFEVVR--DTLH--TNKKDPPPNLTMFTGNAYIVASRDF 305
QY 312 VKYIFNNSIYODPFAMSKDTPSPDEHFWATLIRVPGIPEI--SRSAQVSDLSQKTRLYK 370
DB 306 VQHYLKNPKSQOLIEWKDTYSPDEHLMATLQARMPGSPVPHPKYDIDSMTSIARLYK 365
QY 371 WNYEGFF-----YPSCTGSHLSVCITYGAELRMLIKDGHWFANKFDSKVDPIIKCIA 425
DB 366 WQHEGDIKGAAPYAPCSGIHQALICVYGAGDINMMLQNHHLIANFDPKVDNALQCLE 425
QY 426 EYL 428
DB 426 EYL 428

RESULT 8
US-10-388-307-15
; Sequence 15, Application US/10388307
; Publication No. US20030180778A1
; GENERAL INFORMATION:
; APPLICANT: Schwanitex, Tilo
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-1-transferase, C2GNT3
; FILE REFERENCE: 4503/1G031
; CURRENT APPLICATION NUMBER: US/10/388,307
; PRIOR FILING DATE: 2003-03-13
; PRIOR APPLICATION NUMBER: US/09/645,192
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/150,488
; PRIOR FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; LENGTH: 438
; TYPE: PRF
; ORGANISM: Human
US-10-388-307-15

Query Match 36.3%; Score 868; DB 12; Length 438;
Best Local Similarity 43.0%; Pred. No. 5,2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

```

QY 371 WNYEGFF-----YPSCTGSHLSRVCIGAAELRMLIKDGHWPANKFDSKVDPIILIKCLA 425  
 Db 366 WQHEGIDIKGAPYACSGIHQRAICVYGAGDLNMLQNHHLANKFDPKVDNALQCLE 425  
 QY 426 EKL 428  
 Db 426 EYL 428

## RESULT 9

US-10-084-406-15  
 ; Sequence 15, Application US/10084406  
 ; Publication No. US20030054525A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Schuettek, Tilo  
 ; APPLICANT: Clausen, Henrik  
 ; TITLE OF INVENTION: UPD-N-Acetylglucosamine:  
 ; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglactosamine-alpha-R / (GlcNAc  
 ; FILE REFERENCE: 4503/1G031  
 ; CURRENT APPLICATION NUMBER: US/10/084,406  
 ; CURRENT FILING DATE: 2002-02-25  
 ; PRIOR APPLICATION NUMBER: 09/645,192  
 ; PRIOR FILING DATE: 2000-08-24  
 ; NUMBER OF SEQ ID NOS: 17  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 15  
 ; LENGTH: 438  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 US-10-084-406-15

Query Match 36.3%; Score 868; DB 15; Length 438;  
 Best Local Similarity 43.0%; Pred. No. 5,2e-74;  
 Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

QY 23 LMLSLKLKLN-----RLFPQKDIYVEYSLSTSPFVRN-RYTHVDEVRKVENCSG 75  
 Db 13 LMLGCVMLATVATLKLSPKCDSDHGLSERESQCYCRNLVFLKLPARKSINCSG 72  
 QY 76 IV--EOEPL--EIGKSLERIRDDIIDLEDDVVAWMTSDCDIYOTLNGVAQKLVSEKESF 131  
 Db 73 VTRGDQAVLQALINNLLEVKKR-EPPTDTHYSLTRDCEHFAERKFIOPLSKEVEVF 131  
 QY 132 PIATSLVVKDAIMVERLHAIVNQHNIYCIHIDRAAPDTFKVAMNNLAKCSNFIASK 191  
 Db 132 PIATSVIHEKIEINFRLRAVVAPONIYCVHDEKSPETFEKAVVAIISCFFNVFIASK 191  
 QY 192 LEAVEVAHISRLQADINCLSDLLKSIQWKYVINLGGDFPLKSNFELVSEKLNAGAM 251  
 Db 192 LVRVVAWSVRQADINCMEDLQSSVPMKFIPLNTGTDPIKSNAMVQALKMLNGRNS 251  
 QY 252 LETVAPNSKLERFTYHHELRVYEVYKLPFRINISKEAPPNIOIFVGAAYFVLQAF 311  
 Db 252 MESEVPKHKETRWKHFVYV--DTLHL--TNKKDPPPNLMTFTGNAYIVASRDF 305  
 QY 312 VKTIFNNSIYQDFPANSKDTYSPDEHPMATLIRVPGPI-SRSAQDVSDQSKRLVK 370  
 Db 306 VQVHLKPKSQQLIEWKDYSPDEHLMATLQARMPGSPVPHPKYDISDMTSLARLVK 365  
 QY 371 WNYEGFF-----YPSCTGSHLSRVCIGAAELRMLIKDGHWPANKFDSKVDPIILIKCLA 425  
 Db 366 WQHEGIDIKGAPYACSGIHQRAICVYGAGDLNMLQNHHLANKFDPKVDNALQCLE 425  
 QY 426 EKL 428  
 Db 426 EYL 428

RESULT 10  
 US-10-106-698-5832  
 ; Sequence 5832, Application US/10106698  
 ; Publication No. US20030109690A1

; GENERAL INFORMATION:  
 ; APPLICANT: Ruben et al.  
 ; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
 ; FILE REFERENCE: PA00551  
 ; CURRENT APPLICATION NUMBER: US/10/106,698  
 ; CURRENT FILING DATE: 2002-03-27  
 ; PRIOR APPLICATION NUMBER: PCT/US00/26524  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US 60/157,137  
 ; PRIOR FILING DATE: 1999-09-29  
 ; PRIOR APPLICATION NUMBER: US 60/163,280  
 ; PRIOR FILING DATE: 1999-11-03  
 ; NUMBER OF SEQ ID NOS: 8564  
 ; SOFTWARE: PatentIn Ver. 3.0  
 ; SEQ ID NO 5832  
 ; LENGTH: 465  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-106-698-5832

Query Match 36.3%; Score 868; DB 15; Length 465;  
 Best Local Similarity 43.0%; Pred. No. 5,7e-74;  
 Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

QY 23 LMLSLKLKLN-----RLFPQKDIYVEYSLSTSPFVRN-RYTHVDEVRKVENCSG 75  
 Db 40 LMLGCVMLATVATLKLSPKCDSDHGLSERESQCYCRNLVFLKLPARKSINCSG 99  
 QY 76 IV--EOEPL--EIGKSLERIRDDIIDLEDDVVAWMTSDCDIYOTLNGVAQKLVSEKESF 131  
 Db 100 VTRGDQAVLQALINNLLEVKKR-EPPTDTHYSLTRDCEHFAERKFIOPLSKEVEVF 158  
 QY 132 PIATSLVVKDAIMVERLHAIVNQHNIYCIHIDRAAPDTFKVAMNNLAKCSNFIASK 191  
 Db 159 PIATSVIHEKIEINFRLRAVVAPONIYCVHDEKSPETFEKAVVAIISCFFNVFIASK 218  
 QY 192 LEAVEVAHISRLQADINCLSDLLKSIQWKYVINLGGDFPLKSNFELVSEKLNAGAM 251  
 Db 219 LVRVVAWSVRQADINCMEDLQSSVPMKFIPLNTGTDPIKSNAMVQALKMLNGRNS 278  
 QY 252 LETVAPNSKLERFTYHHELRVYEVYKLPFRINISKEAPPNIOIFVGAAYFVLQAF 311  
 Db 279 MESEVPKHKETRWKHFVYV--DTLHL--TNKKDPPPNLMTFTGNAYIVASRDF 332  
 QY 312 VKTIFNNSIYQDFPANSKDTYSPDEHPMATLIRVPGPI-SRSAQDVSDQSKRLVK 370  
 Db 333 VQVHLKPKSQQLIEWKDYSPDEHLMATLQARMPGSPVPHPKYDISDMTSLARLVK 392  
 QY 371 WNYEGFF-----YPSCTGSHLSRVCIGAAELRMLIKDGHWPANKFDSKVDPIILIKCLA 425  
 Db 393 WQHEGIDIKGAPYACSGIHQRAICVYGAGDLNMLQNHHLANKFDPKVDNALQCLE 452  
 QY 426 EKL 428  
 Db 453 EYL 455

## RESULT 11

US-09-797-207-4  
 ; Sequence 4, Application US/09797207  
 ; Patent No. US20020098563A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: KORCZAK, BOZENA  
 ; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE  
 ; TITLE OF INVENTION: GENE  
 ; FILE REFERENCE: GYCO-721  
 ; CURRENT APPLICATION NUMBER: US/09/797,207  
 ; CURRENT FILING DATE: 2001-03-02  
 ; EARLIER APPLICATION NUMBER: 09/495,913  
 ; EARLIER FILING DATE: 2000-02-02  
 ; EARLIER APPLICATION NUMBER: 60/118,674  
 ; EARLIER FILING DATE: 1999-02-03  
 ; NUMBER OF SEQ ID NOS: 20

SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 4  
LENGTH: 663  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Recombinant  
US-09-797-207-4

Query Match 36.3%; Score 868; DB 9; Length 663;  
Best Local Similarity 43.0%; Pred. No. 9, 7e-74;  
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

QY LMLSLKLN-----RLFPQKDIYEVSLSTSPFVRN-RYTHVDEYEVNCSG 75  
DB LMLGCMMLATATALKSLFKCDSDHGLGESRESQYCRNLILNPLKPARSINCSG 156  
QY 76 IV--EQEPL--EIGSLRIRRDIIIDEDDVAMTSDCDIYQTLRGYAKLVSKESKF 131  
DB VTRGDEAVLQAILNNLEVKKR--EPTDTHVSLTRDCEHFAERKFTQPLSKEEVEF 215  
QY 132 PIYSLVHGDAMVERLHAIVNQHNYICIHDRAPDTPFKYAMNNLAKCFNFIASK 191  
DB 216 PIAYSVIHEKLENFERLRAVYAPQNYICVHDEKSPFTFKAVYALISCFNFIASK 275  
QY 192 LEAVEVAHISRLQADNLCSDLKSSIQWKYVNLGQDFPLKSNFELVSELKUNGAM 251  
DB 276 LVRVYVSWERVQADLNCMEDLLQSSVPKCYFNTCGTDFPIKSNMENVQALMNGRNS 335  
QY 252 LEVYKPNKSLERFTYHHELRVYEVYKLPRTNISKAPRNIOIFVGSAYFLSQAF 311  
DB 336 MESEVPPKHETKTKHFEVVR--DTLHL--TNKKDPPYNTLTFGNAYIVASRDF 389  
QY 312 VKYIFNNSIVQDFPAMSKDTYSPDEHFWATLIRVPGIPGEI--SRSAQVSDLSQKTRLYK 370  
DB 390 VQHLNKPQSQQLIEWKDTYSPDEHFWATLQARMPGSPVPHPKYDSDMTSIARLYK 449  
QY 371 WNYEGF-----YPSCTGSHLSVCITYGAELRMLIKGHWANKPDSKVPDILKCLA 425  
DB 450 WQHEBDIDKGAFAVPCSGIHQRAICVYGADLNMWLQNHHLANKFDPKVDNALQCLE 509  
QY 426 EKL 428  
DB 510 EYL 512

RESULT 12  
US-09-925-297-796  
Sequence 796, Application US/09925297  
Patent No. US20020081659A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA105  
CURRENT APPLICATION NUMBER: US/09/925,297  
CURRENT FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05989  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 928  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 796  
LENGTH: 465  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (59)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-925-297-796

Query Match 36.2%; Score 866; DB 9; Length 465;  
Best Local Similarity 43.0%; Pred. No. 8, 8e-74;  
Matches 182; Conservative 74; Mismatches 143; Indels 24; Gaps 10;

QY LMLSL--LKLNVRLFPQK--DIYEVSLSTSPFVRN-RYTHVDEYEVNCSG 75  
DB LMLGCMMLATATALKSLFKCDSDHGLGESRESQYCRNLILNPLKPARSINCSG 99  
QY 76 IV--EQEPL--EIGSLRIRRDIIIDEDDVAMTSDCDIYQTLRGYAKLVSKESKF 131  
DB VTRGDEAVLQAILNNLEVKKR--EPTDTHVSLTRDCEHFAERKFTQPLSKEEVEF 158  
QY 132 PIYSLVHGDAMVERLHAIVNQHNYICIHDRAPDTPFKYAMNNLAKCFNFIASK 191  
DB 159 PIAYSVIHEKLENFERLRAVYAPQNYICVHDEKSPFTFKAVYALISCFNFIASK 218  
QY 192 LEAVEVAHISRLQADNLCSDLKSSIQWKYVNLGQDFPLKSNFELVSELKUNGAM 251  
DB 219 LVRVYVSWERVQADLNCMEDLLQSSVPKCYFNTCGTDFPIKSNMENVQALMNGRNS 278  
QY 252 LEVYKPNKSLERFTYHHELRVYEVYKLPRTNISKAPRNIOIFVGSAYFLSQAF 311  
DB 279 MESEVPPKHETKTKHFEVVR--DTLHL--TNKKDPPYNTLTFGNAYIVASRDF 332  
QY 312 VKYIFNNSIVQDFPAMSKDTYSPDEHFWATLIRVPGIPGEI--SRSAQVSDLSQKTRLYK 370  
DB 333 VQHLNKPQSQQLIEWKDTYSPDEHFWATLQARMPGSPVPHPKYDSDMTSIARLYK 392  
QY 371 WNYEGF-----YPSCTGSHLSVCITYGAELRMLIKGHWANKPDSKVPDILKCLA 425  
DB 393 WQHEBGIDKGAFAVPCSGIHQRAICVYGADLNMWLQNHHLANKFDPKVDNALQCLE 452  
QY 426 EKL 428  
DB 453 EYL 455

RESULT 13  
US-09-797-207-14  
Sequence 14, Application US/09797207  
Patent No. US20020098563A1  
GENERAL INFORMATION:  
APPLICANT: KORCZAK, BOZENA  
TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE  
FILE REFERENCE: GLYCO-7P1  
CURRENT APPLICATION NUMBER: US/09/797,207  
CURRENT FILING DATE: 2001-03-02  
EARLIER APPLICATION NUMBER: 09/495,913  
EARLIER FILING DATE: 2000-02-02  
EARLIER APPLICATION NUMBER: 60/118,674  
EARLIER FILING DATE: 1999-02-03  
NUMBER OF SEQ ID NOS: 20  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 14  
LENGTH: 428  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-797-207-14

Query Match 36.1%; Score 863.5; DB 9; Length 428;  
Best Local Similarity 43.1%; Pred. No. 1, 3e-73;  
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

QY LKLNVRLFPQKDIYV-EYSIETSPFVRNRYTHVDE--VRY-----EV 71  
DB 1 MRLTLRRLRSLPYTKYEVNVLVSLTISVLR--IHQKPEVSVYRHELAGENSSDI 57  
QY 72 NCSGIVQEBPLEIGK-----SLRIRRDIIIDEDDVAMTSDCDIYQTLRGYAKLV 125  
DB 58 NCTKVLGQDVNEIQKVLITLVKFKRP--RWTDPDYIMTSDCSSFIKRRKYIEPLS 115  
QY 126 KEKSPFIAYSLVHGDAMVERLHAIVNQHNYICIHDRAPDTPFKYAMNNLAKCFN 185

DB 116 KEAEFPPIASIVVHHKIEMLDRLRAIYMPQNFYCVHDTSESDSYLAAMVGIASCFSN 175  
QY 166 IPIASKLEAVEYAHISRLQADLNCSDLLKSIQMKYVINYCGQFPPLKSPPELSELKX 245  
DB 176 VFVASRLSESVVYASMSRVQADLNCMDLYAMSAWKYILINCGMDPPIKTLNLEIYRKKL 235  
QY 246 LINGANMLLETVPKPNSTLERFTYHHLRVPYEVV--KLPIRTNISKEAPPNNIQTIVGSA 303  
DB 236 LMGENNLLETFRMPSHKEERK-----KKRYEVVNGKL-TNTGTVMPLPLETPIFGSSA 287  
QY 304 YFVLSQAFVKYIINNNSIVODFFAMSKDTYSPDEHFWATLIRVPGIPEGISRQAQ-DVSDL 362  
DB 288 YFVVSREYGVYVQNEKIQKLMEMADITYSPDEYIATIORIPEVPGSLPASHKXLDLSDM 347  
QY 363 QSKTRLVKNNYEGFF-----YPSCTGSHLSRVCITYGAELRWLIXDGMFWANKPDSKYD 417  
DB 348 QAVARFVKQYFEGDVSCKAPYPPCDGVHRSVCIFGAADLNMMLRKHLFANKFDVVDV 407  
QY 418 PILIKCLAEKLEEQ 431  
DB 408 LFAIQCLDEHLRHK 421

RESULT 14  
US-10-388-307-13  
Sequence 13, Application US/10388307  
Publication No. US20030180778A1  
GENERAL INFORMATION:  
APPLICANT: Schwiientek, Tilo  
APPLICANT: Clausen, Henrik  
TITLE OF INVENTION: UPD-N-Acetylglucosamine:  
TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine- $\alpha$ -R / (GlcNAc  
FILE REFERENCE: 4503/1G031  
CURRENT APPLICATION NUMBER: US/10/388,307  
CURRENT FILING DATE: 2003-03-13  
PRIOR APPLICATION NUMBER: US/09/645,192  
PRIOR FILING DATE: 2000-08-24  
PRIOR APPLICATION NUMBER: US 60/150,488  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 13  
LENGTH: 428  
TYPE: PRT  
ORGANISM: Human  
US-10-388-307-13

Query Match 36.1%; Score 863.5; DB 12; Length 428;  
Best Local Similarity 43.1%; Pred. No. 1.3e-73;  
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

QY 28 LKTLNVRRLP--PQKDIYV-EYSLSSTSPFVARNRYTHVKE--VRY-----EV 71  
DB 1 MRTLRLRRLLFSYPTKYFMVVLISLITPSVLR---IHQKPFVSVRHLAAGENPSSDI 57  
QY 72 NSGIGYEQERLETGK-----SLRIRRDIIIDEDDDVYAMTSDCDIYQTLGVAQKYS 125  
DB 58 NCTKVLQGDVNEIQVKLEILTVKFKRP--RWPDDYINMTSDCSSFTKRRKIYVEPLS 115  
QY 126 KEKSPPIASVLVHDAIMVERLIIHAIYNOHNYICIHDRKAPDTFKVAMNNLAKCFSN 185  
DB 116 KEAEFPPIASIVVHHKIEMLDRLRAIYMPQNFYCVHDTSESDSYLAAMVGIASCFSN 175  
QY 186 IPIASKLEAVEYAHISRLQADLNCSDLLKSIQMKYVINYCGQFPPLKSPPELSELKX 245  
DB 176 VFVASRLSESVVYASMSRVQADLNCMDLYAMSAWKYILINCGMDPPIKTLNLEIYRKKL 235  
QY 246 LINGANMLLETVPKPNSTLERFTYHHLRVPYEVV--KLPIRTNISKEAPPNNIQTIVGSA 303  
DB 236 LMGENNLLETFRMPSHKEERK-----KKRYEVVNGKL-TNTGTVMPLPLETPIFGSSA 287

QY 304 YFVLSQAFVKYIINNNSIVODFFAMSKDTYSPDEHFWATLIRVPGIPEGISRQAQ-DVSDL 362  
DB 288 YFVVSREYGVYVQNEKIQKLMEMADITYSPDEYIATIORIPEVPGSLPASHKXLDLSDM 347  
QY 363 QSKTRLVKNNYEGFF-----YPSCTGSHLSRVCITYGAELRWLIXDGMFWANKPDSKYD 417  
DB 348 QAVARFVKQYFEGDVSCKAPYPPCDGVHRSVCIFGAADLNMMLRKHLFANKFDVVDV 407  
QY 418 PILIKCLAEKLEEQ 431  
DB 408 LFAIQCLDEHLRHK 421

RESULT 15  
US-10-084-406-13  
Sequence 13, Application US/10084406  
Publication No. US20030054525A1  
GENERAL INFORMATION:  
APPLICANT: Schwiientek, Tilo  
APPLICANT: Clausen, Henrik  
TITLE OF INVENTION: UPD-N-Acetylglucosamine:  
TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine- $\alpha$ -R / (GlcNAc  
FILE REFERENCE: 4503/1G031  
CURRENT APPLICATION NUMBER: US/10/084,406  
CURRENT FILING DATE: 2002-02-25  
PRIOR APPLICATION NUMBER: 09/645,192  
PRIOR FILING DATE: 2000-08-24  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 13  
LENGTH: 428  
TYPE: PRT  
ORGANISM: Human  
US-10-084-406-13

Query Match 36.1%; Score 863.5; DB 15; Length 428;  
Best Local Similarity 43.1%; Pred. No. 1.3e-73;  
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

QY 28 LKTLNVRRLP--PQKDIYV-EYSLSSTSPFVARNRYTHVKE--VRY-----EV 71  
DB 1 MRTLRLRRLLFSYPTKYFMVVLISLITPSVLR---IHQKPFVSVRHLAAGENPSSDI 57  
QY 72 NSGIGYEQERLETGK-----SLRIRRDIIIDEDDDVYAMTSDCDIYQTLGVAQKYS 125  
DB 58 NCTKVLQGDVNEIQVKLEILTVKFKRP--RWPDDYINMTSDCSSFTKRRKIYVEPLS 115  
QY 126 KEKSPPIASVLVHDAIMVERLIIHAIYNOHNYICIHDRKAPDTFKVAMNNLAKCFSN 185  
DB 116 KEAEFPPIASIVVHHKIEMLDRLRAIYMPQNFYCVHDTSESDSYLAAMVGIASCFSN 175  
QY 186 IPIASKLEAVEYAHISRLQADLNCSDLLKSIQMKYVINYCGQFPPLKSPPELSELKX 245  
DB 176 VFVASRLSESVVYASMSRVQADLNCMDLYAMSAWKYILINCGMDPPIKTLNLEIYRKKL 235  
QY 246 LINGANMLLETVPKPNSTLERFTYHHLRVPYEVV--KLPIRTNISKEAPPNNIQTIVGSA 303  
DB 236 LMGENNLLETFRMPSHKEERK-----KKRYEVVNGKL-TNTGTVMPLPLETPIFGSSA 287  
QY 304 YFVLSQAFVKYIINNNSIVODFFAMSKDTYSPDEHFWATLIRVPGIPEGISRQAQ-DVSDL 362  
DB 288 YFVVSREYGVYVQNEKIQKLMEMADITYSPDEYIATIORIPEVPGSLPASHKXLDLSDM 347  
QY 363 QSKTRLVKNNYEGFF-----YPSCTGSHLSRVCITYGAELRWLIXDGMFWANKPDSKYD 417  
DB 348 QAVARFVKQYFEGDVSCKAPYPPCDGVHRSVCIFGAADLNMMLRKHLFANKFDVVDV 407  
QY 418 PILIKCLAEKLEEQ 431  
DB 408 LFAIQCLDEHLRHK 421

Mon Feb 2 09:21:08 2004

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Job time : 41 secs

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